

## Plastics Interlaboratory Testing Program

### Web Summary Report #136, 4th Qtr 2025

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#### Analysis Analysis Name

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## **About CTS and the Plastics Interlaboratory Program**

Founded in 1971, Collaborative Testing Services, Inc. (CTS) is a privately-owned company that specializes in interlaboratory tests for a wide variety of industries including rubber, plastics, fasteners and metals, containerboard, paper, color, agriculture, and wine, as well as proficiency tests for forensic laboratories. All of the tests are designed to assist organizations in achieving and maintaining quality control objectives. Labs from the U.S., as well as more than 100 countries currently participate in CTS programs.

Collaborative Testing Services initiated the Collaborative Reference Program for PLASTICS in 1992 at the request of industry, ASTM committee D-20 members, and accrediting bodies. Additional test methods are always under review and are incorporated into the program when possible.

The program allows laboratories to compare periodically the level and uniformity of their testing with that of other participating laboratories. It also provides a realistic assessment of the state of plastics testing proficiency.

For each test there is a summary of the statistics for the analysis and a graphical representation of the data. Also shown are notes concerning specific laboratory results, as well as significant findings related to instrument types or other testing variations. Refer to the KEY FOR SUMMARY REPORT for an explanation of terms and guidelines for interpreting the results.

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## Key for Web Summary Report (Page 1 of 2)

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>WebCode</b>                        | Assigned laboratory identification number (temporary) used to ensure lab confidentiality while permitting a lab to locate its data in the Plastics Web Summary Report published on the CTS web site. The WebCode for each analysis can be found in the Performance Analysis Report mailed to each participant.                                                                                                                          |
| <b>Lab Mean</b>                       | The average of the test results obtained by the participant.                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Grand Mean</b>                     | The average of the LAB MEANS for all included participants. Laboratories flagged with an X or an M (see DATA FLAG column) are excluded from the GRAND MEAN.                                                                                                                                                                                                                                                                             |
| <b>Difference from Grand Mean</b>     | The difference of the LAB MEAN from the GRAND MEAN.                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Between-Lab Standard Deviation</b> | An indication of the precision of measurement between the laboratories. The greater the spread of the LAB MEANS about the GRAND MEAN, the larger the BETWEEN-LAB STANDARD DEVIATION (and vice versa).                                                                                                                                                                                                                                   |
| <b>Comparative Performance Value</b>  | An indication of how well a laboratory's results agree with the other participants. The CPV is a ratio indicating the number of standard deviations from the GRAND MEAN. The closer a laboratory's COMPARATIVE PERFORMANCE VALUE is to zero, the more consistent its results are with the other participants' data (and vice versa). The critical value for each CPV will vary depending on the number of labs participating in a test. |
| <b>Inst Code</b>                      | A code indicating the manufacturer of the instrument used to perform the test (see separate INSTRUMENT CODE LIST for each test section) if instruments are tracked.                                                                                                                                                                                                                                                                     |
| <b>Data Flag</b>                      | DATA FLAGS are assigned based on the simultaneous analysis of both samples tested. Refer to the following chart for an explanation of each symbol:                                                                                                                                                                                                                                                                                      |

| <b><u>DATA FLAG</u></b> | <b><u>STATISTICALLY INCLUDED/EXCLUDED</u></b> | <b><u>ACTION REQUIRED</u></b>                                                                                                                                                                                |
|-------------------------|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| *                       | INCLUDED                                      | <b>CAUTION</b> - review testing procedure and monitor future results. Results fall outside 95% ellipse but within a 99% ellipse that is calculated but not drawn.                                            |
| X                       | EXCLUDED                                      | <b>STOP</b> - immediate review of data and/or testing procedure is required. Results fall outside the 99% ellipse. See specific notes following each table for more information on why the data is excluded. |
| M                       | EXCLUDED                                      | <b>PROCEED</b> - lab was unable to report data for at least one sample.                                                                                                                                      |

**Graph** - For each laboratory, the LAB MEAN for the first sample (x-axis) is plotted against the LAB MEAN for the second sample (y-axis) with each point representing a laboratory. The horizontal and vertical cross-hairs are the GRAND MEANS for each sample. When 20 or more laboratories are in the statistics, an ellipse is also drawn so that 95% of the time a randomly selected laboratory will be included inside the ellipse. Plotted data flags are explained above.

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### Common Problems Highlighted in Footnotes

1. **Extreme data** - The laboratory's results for one or both samples are so inconsistent with those of the other participants that the lab mean(s) fall outside the plot. The participant is advised to immediately review his data and/or testing procedure.
  2. **Systematic bias** - The laboratory's results are either consistently high or low for both samples when compared to the other participants (the plotted point falls near the top or bottom of the ellipse). This indicates that the participant is performing the test with a constant bias. Causes of systematic errors include improper calibration, the particular make/model of equipment or a modification to the testing procedure.
  3. **Inconsistency in testing between samples/sample sets** - The laboratory's results indicate that there are differences in the way the two samples tested (the plotted point falls to the side of the ellipse). This type of error may be attributed to the analyst deviating from the procedure when testing one of the samples or a material interaction occurrence with the instrument or room conditions. The inconsistency is reflected in the CPVs for the two samples, such as a +1.5 CPV for sample A and a -2.2 CPV for sample B. CTS also will specify if the laboratory's data for one sample are high/low compared to the other participants. If this inconsistency is slight, the lab's plotted point will be an \* that falls on the edge of the ellipse.
  4. **Inconsistency in testing within a sample** - The laboratory's within-lab standard deviation for a specified sample is high when compared to the other participants, often causing the lab's plotted point to fall outside of the ellipse.
- 

Labs flagged with an \* are not typically included in the footnotes of a data table. These labs may locate their position in the control ellipse and use the definitions above to help identify the type of testing error. An \* should serve as a caution flag, a "yellow light", to a lab. If this error is repeated in future rounds, a lab may need to stop and review its testing procedures. The initial data flag is not cause for alarm. Interlaboratory tests conducted at regular intervals permit a lab to recognize trends in testing.



## Plastics Interlaboratory Testing Program

### Results Summary for Report #136, 4th Qtr 2025

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#### Analysis 704 - Tensile Stress at Yield

|                |            |          |     |           |
|----------------|------------|----------|-----|-----------|
| Material: HIPS | Sample F13 | 3,971.49 | psi | 2.63% COV |
|                | Sample F14 | 3,961.25 | psi | 2.75% COV |

#### Analysis 705 - Tensile Stress at Break

|                |            |          |     |           |
|----------------|------------|----------|-----|-----------|
| Material: HIPS | Sample F13 | 3,323.35 | psi | 3.80% COV |
|                | Sample F14 | 3,307.68 | psi | 3.33% COV |

#### Analysis 706 - Percent Elongation at Yield

|                |            |        |         |           |
|----------------|------------|--------|---------|-----------|
| Material: HIPS | Sample F13 | 1.3624 | Percent | 4.66% COV |
|                | Sample F14 | 1.3583 | Percent | 4.02% COV |

#### Analysis 708 - Modulus of Elasticity

|                |            |        |     |           |
|----------------|------------|--------|-----|-----------|
| Material: HIPS | Sample F13 | 343.31 | ksi | 4.19% COV |
|                | Sample F14 | 343.23 | ksi | 3.71% COV |

#### Analysis 710 - Deflection Temp. Under Flexural Load (1.82 MPa)

|               |            |        |           |           |
|---------------|------------|--------|-----------|-----------|
| Material: ABS | Sample E13 | 79.797 | Degrees C | 1.18% COV |
|               | Sample E14 | 79.847 | Degrees C | 1.13% COV |

#### Analysis 711 - Deflection Temp. Under Flexural Load (0.455 MPa)

|              |            |        |           |           |
|--------------|------------|--------|-----------|-----------|
| Material: PP | Sample G13 | 112.06 | Degrees C | 3.30% COV |
|              | Sample G14 | 112.48 | Degrees C | 4.41% COV |

#### Analysis 712 - Temperature of Deflection (1.80 MPa)

|               |            |        |           |            |
|---------------|------------|--------|-----------|------------|
| Material: ABS | Sample N13 | 79.817 | Degrees C | 0.784% COV |
|               | Sample N14 | 79.848 | Degrees C | 0.764% COV |

#### Analysis 715 - Vicat Temperature (Rate A)

|               |            |        |           |            |
|---------------|------------|--------|-----------|------------|
| Material: ABS | Sample H13 | 103.21 | Degrees C | 0.879% COV |
|               | Sample H14 | 103.23 | Degrees C | 0.883% COV |

#### Analysis 716 - Vicat Temperature (Rate B)

|               |            |        |           |            |
|---------------|------------|--------|-----------|------------|
| Material: ABS | Sample R13 | 105.00 | Degrees C | 0.750% COV |
|               | Sample R14 | 105.06 | Degrees C | 0.748% COV |

#### Analysis 718 - Specific Gravity

|                  |            |        |               |            |
|------------------|------------|--------|---------------|------------|
| Material: ABS/PC | Sample T13 | 1.1390 | sp gr 23/23 C | 0.224% COV |
|                  | Sample T14 | 1.1392 | sp gr 23/23 C | 0.212% COV |

#### Analysis 720 - Flexural Modulus

|                |            |        |     |           |
|----------------|------------|--------|-----|-----------|
| Material: HIPS | Sample J13 | 349.65 | ksi | 4.90% COV |
|                | Sample J14 | 349.68 | ksi | 4.98% COV |

#### Analysis 721 - Flexural Stress at 5% Strain

|                |            |          |     |           |
|----------------|------------|----------|-----|-----------|
| Material: HIPS | Sample J13 | 6,411.05 | psi | 4.70% COV |
|                | Sample J14 | 6,421.83 | psi | 4.57% COV |

#### Analysis 722 - Flexural Stress at Yield

|                |            |          |     |           |
|----------------|------------|----------|-----|-----------|
| Material: HIPS | Sample J13 | 6,321.46 | psi | 7.05% COV |
|                | Sample J14 | 6,337.00 | psi | 6.85% COV |

#### Analysis 730 - Tensile Stress at Yield, ISO Method

|                |            |        |     |           |
|----------------|------------|--------|-----|-----------|
| Material: HIPS | Sample C13 | 26.494 | MPa | 2.22% COV |
|                | Sample C14 | 26.469 | MPa | 2.09% COV |

#### Analysis 731 - Tensile Stress at Break, ISO Method

|                |            |        |     |           |
|----------------|------------|--------|-----|-----------|
| Material: HIPS | Sample C13 | 21.593 | MPa | 2.41% COV |
|                | Sample C14 | 21.564 | MPa | 2.50% COV |



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#### Analysis 732 - Strain at Yield, ISO Method

|                |            |        |         |           |
|----------------|------------|--------|---------|-----------|
| Material: HIPS | Sample C13 | 1.2836 | Percent | 4.61% COV |
|                | Sample C14 | 1.2910 | Percent | 4.45% COV |

#### Analysis 734 - Modulus of Elasticity, ISO Method

|                |            |          |     |           |
|----------------|------------|----------|-----|-----------|
| Material: HIPS | Sample C13 | 2,319.76 | MPa | 2.94% COV |
|                | Sample C14 | 2,312.57 | MPa | 2.83% COV |

#### Analysis 736 - Flexural Modulus

|                |            |          |     |           |
|----------------|------------|----------|-----|-----------|
| Material: HIPS | Sample K13 | 2,340.91 | MPa | 4.59% COV |
|                | Sample K14 | 2,335.69 | MPa | 4.71% COV |

#### Analysis 737 - Flexural Stress at 3.5% Strain

|                |            |        |     |           |
|----------------|------------|--------|-----|-----------|
| Material: HIPS | Sample K13 | 41.800 | MPa | 3.19% COV |
|                | Sample K14 | 41.741 | MPa | 3.45% COV |

#### Analysis 738 - Flexural Stress at Yield

|                |            |        |     |           |
|----------------|------------|--------|-----|-----------|
| Material: HIPS | Sample K13 | 42.631 | MPa | 3.34% COV |
|                | Sample K14 | 42.631 | MPa | 3.54% COV |

#### Analysis 750 - Flow Rate (190C or 230C/2.16 kg)

|              |            |        |               |           |
|--------------|------------|--------|---------------|-----------|
| Material: PP | Sample X13 | 12.374 | grams/10 mins | 5.23% COV |
|              | Sample X14 | 12.393 | grams/10 mins | 5.02% COV |

#### Analysis 755 - Moisture Content

|                  |            |         |         |           |
|------------------|------------|---------|---------|-----------|
| Material: ABS/PC | Sample Y13 | 0.17117 | Percent | 19.0% COV |
|                  | Sample Y14 | 0.17233 | Percent | 18.0% COV |

#### Analysis 757 - Ash Content

|               |            |        |         |            |
|---------------|------------|--------|---------|------------|
| Material: PBT | Sample L13 | 29.696 | Percent | 0.257% COV |
|               | Sample L14 | 29.674 | Percent | 0.276% COV |

#### Analysis 758 - TGA

|              |            |        |         |            |
|--------------|------------|--------|---------|------------|
| Material: PP | Sample A13 | 79.214 | Percent | 0.483% COV |
|              | Sample A14 | 79.086 | Percent | 0.554% COV |

#### Analysis 760 - DSC Crystallization Temperature

|               |            |        |                 |           |
|---------------|------------|--------|-----------------|-----------|
| Material: PBT | Sample W13 | 174.11 | Degrees Celsius | 3.03% COV |
|               | Sample W14 | 174.01 | Degrees Celsius | 3.10% COV |

#### Analysis 761 - DSC Melt Temperature

|               |            |        |                 |            |
|---------------|------------|--------|-----------------|------------|
| Material: PBT | Sample W13 | 223.26 | Degrees Celsius | 0.839% COV |
|               | Sample W14 | 223.22 | Degrees Celsius | 0.885% COV |

#### Analysis 762 - DSC Enthalpy of Crystallization

|               |            |        |                 |           |
|---------------|------------|--------|-----------------|-----------|
| Material: PBT | Sample W13 | 45.991 | Joules Per Gram | 6.93% COV |
|               | Sample W14 | 45.880 | Joules Per Gram | 6.04% COV |

#### Analysis 763 - DSC Enthalpy of Fusion

|               |            |        |                 |           |
|---------------|------------|--------|-----------------|-----------|
| Material: PBT | Sample W13 | 41.511 | Joules Per Gram | 11.3% COV |
|               | Sample W14 | 42.186 | Joules Per Gram | 10.7% COV |

#### Analysis 764 - DSC Glass Transition Temperature

|               |            |        |                 |           |
|---------------|------------|--------|-----------------|-----------|
| Material: PET | Sample V13 | 81.011 | Degrees Celsius | 2.37% COV |
|               | Sample V14 | 81.036 | Degrees Celsius | 2.43% COV |

#### Analysis 765 - Research Crystallization Peak Temperature

|               |            |        |                 |           |
|---------------|------------|--------|-----------------|-----------|
| Material: PBT | Sample W13 | 173.35 | Degrees Celsius | 2.40% COV |
|               | Sample W14 | 172.74 | Degrees Celsius | 2.59% COV |



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#### Analysis 766 - Research Melting Peak Temperature

|               |            |        |                 |           |
|---------------|------------|--------|-----------------|-----------|
| Material: PBT | Sample W13 | 223.67 | Degrees Celsius | 1.31% COV |
|               | Sample W14 | 223.61 | Degrees Celsius | 1.39% COV |

#### Analysis 767 - Research Heat of Crystallization

|               |            |        |                 |           |
|---------------|------------|--------|-----------------|-----------|
| Material: PBT | Sample W13 | 46.315 | Joules Per Gram | 7.25% COV |
|               | Sample W14 | 46.462 | Joules Per Gram | 7.46% COV |

#### Analysis 768 - Research Heat of Fusion

|               |            |        |                 |           |
|---------------|------------|--------|-----------------|-----------|
| Material: PBT | Sample W13 | 42.148 | Joules Per Gram | 10.6% COV |
|               | Sample W14 | 42.195 | Joules Per Gram | 9.91% COV |

#### Analysis 769 - Research Glass Transition Temperature

|               |            |        |                 |           |
|---------------|------------|--------|-----------------|-----------|
| Material: PET | Sample V13 | 81.753 | Degrees Celsius | 1.80% COV |
|               | Sample V14 | 81.944 | Degrees Celsius | 1.77% COV |

#### Analysis 770 - Tensile Stress at Yield, Films

|                |            |          |     |           |
|----------------|------------|----------|-----|-----------|
| Material: LDPE | Sample B13 | 1,909.71 | psi | 9.50% COV |
|                | Sample B14 | 1,865.62 | psi | 7.04% COV |

#### Analysis 771 - Tensile Stress at Break, Films

|                |            |          |     |           |
|----------------|------------|----------|-----|-----------|
| Material: LDPE | Sample B13 | 4,637.30 | psi | 20.6% COV |
|                | Sample B14 | 4,555.76 | psi | 17.5% COV |

#### Analysis 772 - Elongation at Yield, Films

|                |            |        |         |           |
|----------------|------------|--------|---------|-----------|
| Material: LDPE | Sample B13 | 69.833 | Percent | 13.9% COV |
|                | Sample B14 | 65.405 | Percent | 12.2% COV |

#### Analysis 773 - Elongation at Break, Films

|                |            |        |         |           |
|----------------|------------|--------|---------|-----------|
| Material: LDPE | Sample B13 | 762.84 | Percent | 19.8% COV |
|                | Sample B14 | 789.23 | Percent | 21.4% COV |

#### Analysis 774 - Thickness of Film Specimens

|                |            |        |      |           |
|----------------|------------|--------|------|-----------|
| Material: LDPE | Sample B13 | 2.7878 | mils | 5.06% COV |
|                | Sample B14 | 2.9800 | mils | 6.82% COV |

#### Analysis 775 - Secant Modulus at 1% Strain

|                |            |           |     |           |
|----------------|------------|-----------|-----|-----------|
| Material: LDPE | Sample B13 | 40,021.31 | psi | 12.7% COV |
|                | Sample B14 | 39,468.83 | psi | 12.2% COV |

#### Analysis 776 - Secant Modulus at 2% Strain

|                |            |           |     |           |
|----------------|------------|-----------|-----|-----------|
| Material: LDPE | Sample B13 | 34,918.50 | psi | 13.3% COV |
|                | Sample B14 | 34,148.26 | psi | 11.8% COV |

#### Analysis 780 - Static Friction

|                |            |         |     |           |
|----------------|------------|---------|-----|-----------|
| Material: LDPE | Sample P13 | 0.15554 | COF | 15.5% COV |
|                | Sample P14 | 0.17735 | COF | 25.9% COV |

#### Analysis 781 - Kinetic Friction

|                |            |         |     |           |
|----------------|------------|---------|-----|-----------|
| Material: LDPE | Sample P13 | 0.09517 | COF | 40.1% COV |
|                | Sample P14 | 0.10467 | COF | 39.0% COV |

#### Analysis 782 - Tear Resistance of Film

|                |            |        |             |           |
|----------------|------------|--------|-------------|-----------|
| Material: LDPE | Sample Q13 | 267.70 | grams-force | 14.2% COV |
|                | Sample Q14 | 567.75 | grams-force | 10.5% COV |

#### Analysis 785 - Percent Haze

|                |            |        |         |           |
|----------------|------------|--------|---------|-----------|
| Material: LDPE | Sample D13 | 25.029 | Percent | 4.39% COV |
|                | Sample D14 | 19.257 | Percent | 5.76% COV |



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#### Analysis 786 - Total Transmittance

|                |            |        |         |           |
|----------------|------------|--------|---------|-----------|
| Material: LDPE | Sample D13 | 92.492 | Percent | 1.10% COV |
|                | Sample D14 | 92.643 | Percent | 1.11% COV |

#### Analysis 790 - Notched Izod Impact

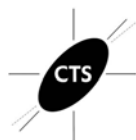
|                |            |        |           |           |
|----------------|------------|--------|-----------|-----------|
| Material: HIPS | Sample S13 | 1.9021 | ft.lbf/in | 12.3% COV |
|                | Sample S14 | 1.9090 | ft.lbf/in | 12.0% COV |

#### Analysis 791 - Notched Izod Impact

|                  |            |        |                   |           |
|------------------|------------|--------|-------------------|-----------|
| Material: ABS/PC | Sample Z13 | 43.762 | kJ/m <sup>2</sup> | 6.69% COV |
|                  | Sample Z14 | 43.894 | kJ/m <sup>2</sup> | 7.59% COV |

#### Analysis 792 - Notched Charpy Impact

|                |            |        |                   |           |
|----------------|------------|--------|-------------------|-----------|
| Material: HIPS | Sample M13 | 8.4815 | kJ/m <sup>2</sup> | 4.26% COV |
|                | Sample M14 | 8.5385 | kJ/m <sup>2</sup> | 4.69% COV |



# Plastics Interlaboratory Testing Program

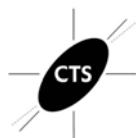
## Analysis 704

### Tensile Stress at Yield - psi

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| WebCode | Data Flag | Sample F13 |                      |        | Sample F14 |                      |        |
|---------|-----------|------------|----------------------|--------|------------|----------------------|--------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV    | Lab Mean   | Diff from Grand Mean | CPV    |
| 29UYLF  |           | 4,008.8    | 37.3                 | 0.36   | 4,045.2    | 83.9                 | 0.77   |
| 2HJMJ4  |           | 3,938.2    | -33.3                | -0.32  | 3,896.2    | -65.1                | -0.60  |
| 3FCNKF  |           | 4,040.8    | 69.3                 | 0.66   | 4,133.6    | 172.4                | 1.58   |
| 469NPM  |           | 3,845.4    | -126.1               | -1.21  | 3,739.0    | -222.3               | -2.04  |
| 473EV3  |           | 4,034.8    | 63.3                 | 0.61   | 4,023.2    | 61.9                 | 0.57   |
| 4NLDYE  |           | 4,216.0    | 244.5                | 2.34   | 4,175.4    | 214.1                | 1.97   |
| 4VJ3JP  |           | 4,030.0    | 58.5                 | 0.56   | 4,044.0    | 82.7                 | 0.76   |
| 4WRDA2  |           | 3,850.8    | -120.7               | -1.15  | 3,808.4    | -152.9               | -1.40  |
| 6BQGER  |           | 3,931.2    | -40.3                | -0.39  | 3,947.6    | -13.7                | -0.13  |
| 6W8YJ3  |           | 4,028.0    | 56.5                 | 0.54   | 4,039.3    | 78.1                 | 0.72   |
| 6WANPL  |           | 4,003.3    | 31.8                 | 0.30   | 3,969.9    | 8.7                  | 0.08   |
| 7PLC2J  |           | 3,912.4    | -59.1                | -0.57  | 3,917.7    | -43.5                | -0.40  |
| 7W9BHJ  |           | 4,010.1    | 38.6                 | 0.37   | 3,981.7    | 20.5                 | 0.19   |
| 7XH3TK  |           | 4,080.0    | 108.5                | 1.04   | 4,030.0    | 68.7                 | 0.63   |
| 8QWMHM  |           | 3,930.8    | -40.6                | -0.39  | 3,928.8    | -32.4                | -0.30  |
| 8XD2KR  |           | 3,984.8    | 13.3                 | 0.13   | 3,952.0    | -9.2                 | -0.08  |
| 9LGC4J  |           | 3,985.1    | 13.6                 | 0.13   | 4,008.3    | 47.0                 | 0.43   |
| 9ZXA6D  |           | 3,808.7    | -162.8               | -1.56  | 3,834.8    | -126.4               | -1.16  |
| A2NQYL  |           | 3,935.1    | -36.4                | -0.35  | 3,909.8    | -51.4                | -0.47  |
| AEEMXY  |           | 3,990.0    | 18.5                 | 0.18   | 4,046.2    | 84.9                 | 0.78   |
| AHEV6U  |           | 3,959.0    | -12.5                | -0.12  | 3,959.3    | -2.0                 | -0.02  |
| B9HETV  |           | 4,005.2    | 33.7                 | 0.32   | 4,002.6    | 41.3                 | 0.38   |
| BNUXMG  |           | 3,899.5    | -72.0                | -0.69  | 3,911.5    | -49.8                | -0.46  |
| BVBFWH  |           | 3,912.2    | -59.3                | -0.57  | 3,922.0    | -39.3                | -0.36  |
| C7BJLX  |           | 3,840.8    | -130.7               | -1.25  | 3,818.5    | -142.7               | -1.31  |
| C89RUG  |           | 4,045.7    | 74.2                 | 0.71   | 3,994.1    | 32.8                 | 0.30   |
| CBM8K9  | *         | 4,267.0    | 295.6                | 2.83   | 4,238.0    | 276.8                | 2.54   |
| CHNL9V  |           | 3,973.6    | 2.1                  | 0.02   | 4,004.4    | 43.1                 | 0.40   |
| CHPCED  | X         | 2,718.0    | -1,253.5             | -12.00 | 2,656.0    | -1,305.3             | -12.00 |
| CJJ3KR  |           | 3,844.6    | -126.9               | -1.21  | 3,896.0    | -65.3                | -0.60  |
| CJKUFE  |           | 3,826.0    | -145.5               | -1.39  | 3,759.8    | -201.5               | -1.85  |
| CPPZRB  |           | 4,024.8    | 53.3                 | 0.51   | 3,972.7    | 11.4                 | 0.10   |
| DBZD2A  | *         | 4,041.4    | 69.9                 | 0.67   | 3,909.0    | -52.3                | -0.48  |
| DXCCHH  |           | 3,995.4    | 23.9                 | 0.23   | 3,959.2    | -2.1                 | -0.02  |
| EM9HMW  |           | 3,963.3    | -8.2                 | -0.08  | 3,957.0    | -4.3                 | -0.04  |



# Plastics Interlaboratory Testing Program

## Analysis 704

### Tensile Stress at Yield - psi

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample F13 |                      |       | Sample F14 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| EU83RC  |           | 3,988.6    | 17.1                 | 0.16  | 3,977.0    | 15.7                 | 0.14  |
| F7HZAL  |           | 3,935.2    | -36.3                | -0.35 | 3,842.4    | -118.9               | -1.09 |
| FAJ429  |           | 3,965.3    | -6.2                 | -0.06 | 4,021.6    | 60.4                 | 0.56  |
| FHU6H3  |           | 4,129.4    | 157.9                | 1.51  | 4,072.6    | 111.3                | 1.02  |
| HARWRR  |           | 4,061.1    | 89.6                 | 0.86  | 4,061.1    | 99.8                 | 0.92  |
| HKAEEKY |           | 3,920.8    | -50.7                | -0.49 | 3,933.6    | -27.7                | -0.25 |
| JFD6TX  |           | 3,971.6    | 0.1                  | 0.00  | 3,993.2    | 31.9                 | 0.29  |
| K7QBFF  |           | 4,113.3    | 141.8                | 1.36  | 4,075.6    | 114.3                | 1.05  |
| KCQRNZ  | X         | 3,260.0    | -711.5               | -6.81 | 3,274.0    | -687.3               | -6.32 |
| LBEDX7  |           | 3,928.2    | -43.3                | -0.41 | 3,970.3    | 9.0                  | 0.08  |
| LER6Y7  | X         | 3,354.6    | -616.9               | -5.90 | 3,373.8    | -587.5               | -5.40 |
| LHFPU3  |           | 3,934.2    | -37.3                | -0.36 | 3,973.2    | 11.9                 | 0.11  |
| LTA3RE  |           | 4,172.4    | 200.9                | 1.92  | 4,096.0    | 134.7                | 1.24  |
| LX7UZZ  | *         | 3,994.4    | 22.9                 | 0.22  | 3,834.8    | -126.4               | -1.16 |
| LZWXQW  |           | 3,845.0    | -126.5               | -1.21 | 3,820.0    | -141.2               | -1.30 |
| M4PEGW  |           | 3,954.2    | -17.3                | -0.17 | 3,995.4    | 34.1                 | 0.31  |
| MGYT24  |           | 3,909.0    | -62.5                | -0.60 | 3,873.0    | -88.3                | -0.81 |
| MUZNXA  |           | 4,040.2    | 68.7                 | 0.66  | 4,020.2    | 58.9                 | 0.54  |
| NXKVXX  |           | 4,005.0    | 33.5                 | 0.32  | 4,079.4    | 118.1                | 1.09  |
| NYDT8P  |           | 3,800.3    | -171.2               | -1.64 | 3,833.4    | -127.9               | -1.18 |
| PTL437  |           | 3,867.8    | -103.7               | -0.99 | 3,840.0    | -121.3               | -1.11 |
| RTR3C6  |           | 4,098.0    | 126.5                | 1.21  | 4,098.0    | 136.7                | 1.26  |
| TBQKXU  |           | 3,924.0    | -47.5                | -0.45 | 3,938.0    | -23.3                | -0.21 |
| TU7RDW  |           | 4,032.7    | 61.2                 | 0.59  | 4,016.6    | 55.3                 | 0.51  |
| TVFXCJ  | X         | 3,412.0    | -559.5               | -5.35 | 3,394.0    | -567.3               | -5.21 |
| TYF6UV  | *         | 3,722.8    | -248.7               | -2.38 | 3,633.9    | -327.4               | -3.01 |
| U6HGQR  |           | 4,135.1    | 163.6                | 1.57  | 4,163.2    | 201.9                | 1.86  |
| UADAKM  |           | 3,852.0    | -119.5               | -1.14 | 3,878.0    | -83.3                | -0.77 |
| UTLL4W  |           | 4,029.4    | 57.9                 | 0.55  | 4,052.0    | 90.7                 | 0.83  |
| V472WQ  |           | 4,037.6    | 66.1                 | 0.63  | 4,087.6    | 126.3                | 1.16  |
| XDLUYX  |           | 3,912.0    | -59.5                | -0.57 | 3,914.0    | -47.3                | -0.43 |
| XGGNRT  |           | 4,084.4    | 112.9                | 1.08  | 4,015.8    | 54.5                 | 0.50  |
| XHAKVT  |           | 4,047.4    | 75.9                 | 0.73  | 3,991.8    | 30.5                 | 0.28  |
| XTUL23  | *         | 3,717.1    | -254.4               | -2.43 | 3,787.8    | -173.4               | -1.59 |
| YBNTKT  |           | 3,896.0    | -75.5                | -0.72 | 3,880.0    | -81.3                | -0.75 |



# Plastics Interlaboratory Testing Program

## Analysis 704

### Tensile Stress at Yield - psi

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample F13 |                      |       | Sample F14 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| ZMGLFM  | X         | 4,116.4    | 144.9                | 1.39  | 3,852.4    | -108.9               | -1.00 |
| ZRULDE  | X         | 3,144.8    | -826.7               | -7.91 | 3,130.4    | -830.9               | -7.64 |
| ZVBRDV  |           | 3,902.6    | -68.9                | -0.66 | 3,899.2    | -62.1                | -0.57 |

#### Summary Statistics

##### Grand Means

Sample F13  
3,971.49 psi

Sample F14  
3,961.25 psi

##### Std Dev Btwn Labs

104.50 psi

108.80 psi

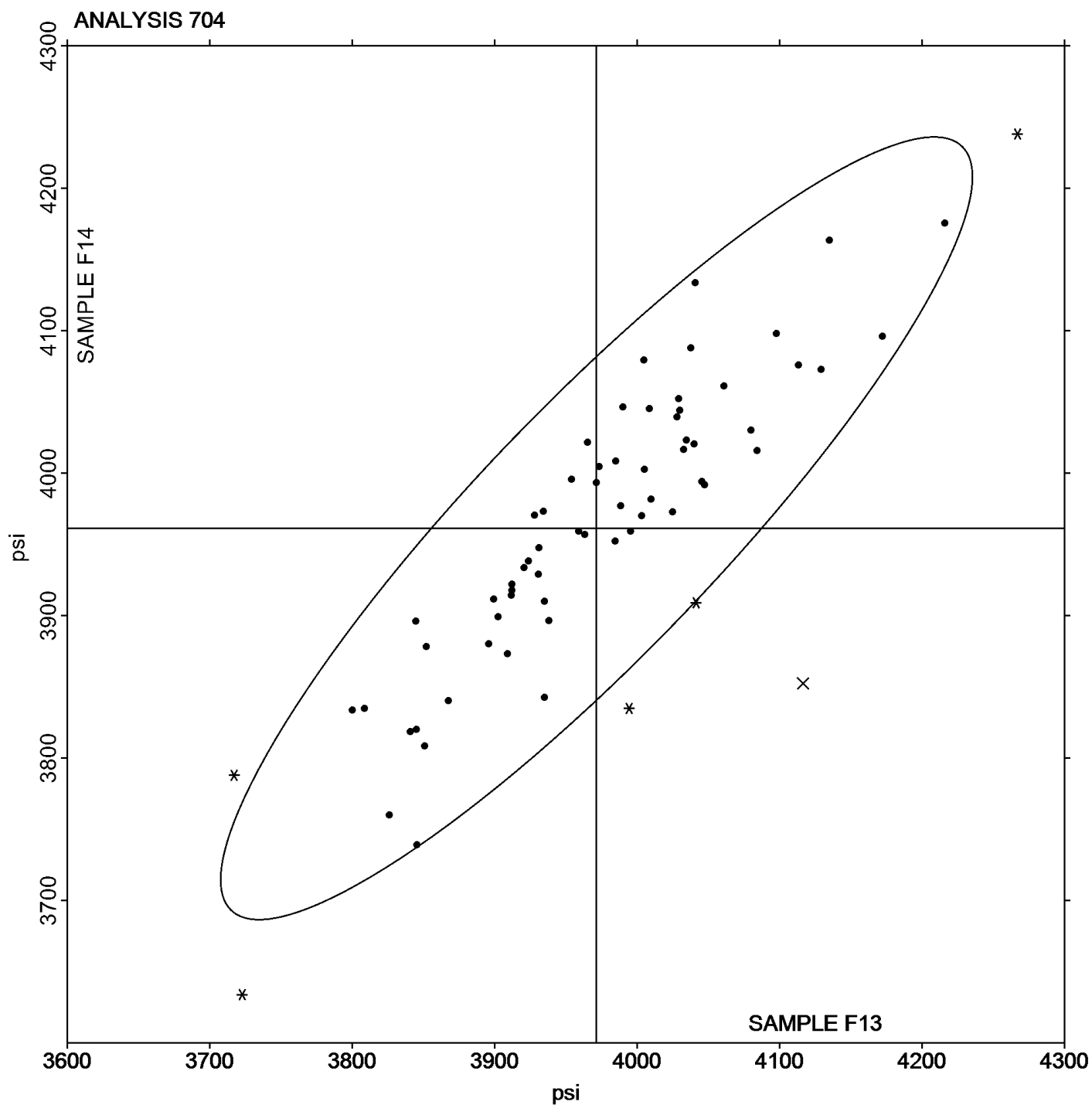
Statistics based on 67 of 73 reporting participants

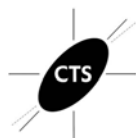
Sample F13: HIPS & Sample F14: HIPS

#### Comments on Assigned Data Flags for Test #704

- ZRULDE (X) - Data for both samples are low. Possible Systematic Error. Inconsistent within the determinations of sample F13.
- TVFXCJ (X) - Data for both samples are low. Possible Systematic Error.
- CHPCED (X) - Data for both samples are low. Possible Systematic Error.
- ZMGLFM (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample F14.
- KCQRNZ (X) - Data for both samples are low. Possible Systematic Error.
- LER6Y7 (X) - Data for both samples are low. Possible Systematic Error.

**Grand Mean Sample F13: 3,971.49 psi    Grand Mean Sample F14: 3,961.25 psi**





# Plastics Interlaboratory Testing Program

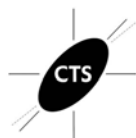
## Analysis 705

### Tensile Stress at Break - psi

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample F13 |                      |       | Sample F14 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| 29UYLF  |           | 3,316.3    | -7.1                 | -0.06 | 3,393.8    | 86.1                 | 0.78  |
| 2HJMJ4  |           | 3,341.0    | 17.6                 | 0.14  | 3,196.6    | -111.1               | -1.01 |
| 3FCNKF  |           | 3,327.2    | 3.8                  | 0.03  | 3,379.4    | 71.7                 | 0.65  |
| 469NPM  | X         | 3,320.0    | -3.4                 | -0.03 | 3,100.0    | -207.7               | -1.88 |
| 473EV3  |           | 3,374.4    | 51.0                 | 0.40  | 3,316.2    | 8.5                  | 0.08  |
| 4NLDYE  | *         | 3,663.1    | 339.8                | 2.69  | 3,522.7    | 215.0                | 1.95  |
| 4VJ3JP  |           | 3,338.0    | 14.6                 | 0.12  | 3,320.0    | 12.3                 | 0.11  |
| 4WRDA2  |           | 3,252.4    | -71.0                | -0.56 | 3,167.4    | -140.3               | -1.27 |
| 6BQGER  |           | 3,149.6    | -173.8               | -1.38 | 3,225.4    | -82.3                | -0.75 |
| 6W8YJ3  |           | 3,454.0    | 130.6                | 1.03  | 3,392.2    | 84.5                 | 0.77  |
| 7PLC2J  |           | 3,289.6    | -33.7                | -0.27 | 3,271.4    | -36.2                | -0.33 |
| 7W9BHJ  |           | 3,400.3    | 76.9                 | 0.61  | 3,402.1    | 94.5                 | 0.86  |
| 7XH3TK  |           | 3,378.6    | 55.2                 | 0.44  | 3,293.0    | -14.7                | -0.13 |
| 8QWMHM  |           | 3,164.8    | -158.6               | -1.26 | 3,182.2    | -125.5               | -1.14 |
| 8XD2KR  |           | 3,331.0    | 7.6                  | 0.06  | 3,193.5    | -114.2               | -1.04 |
| 9LGC4J  |           | 3,160.7    | -162.7               | -1.29 | 3,154.3    | -153.4               | -1.39 |
| 9ZXA6D  | *         | 2,953.0    | -370.4               | -2.93 | 3,034.2    | -273.5               | -2.48 |
| A2NQYL  |           | 3,326.3    | 2.9                  | 0.02  | 3,278.3    | -29.4                | -0.27 |
| AEEMXY  |           | 3,397.4    | 74.0                 | 0.59  | 3,400.0    | 92.3                 | 0.84  |
| AHEV6U  |           | 3,362.0    | 38.6                 | 0.31  | 3,313.0    | 5.3                  | 0.05  |
| B9HETV  |           | 3,350.8    | 27.4                 | 0.22  | 3,349.6    | 41.9                 | 0.38  |
| BNUXMG  |           | 3,318.9    | -4.4                 | -0.04 | 3,360.5    | 52.8                 | 0.48  |
| BVBFWH  |           | 3,308.0    | -15.4                | -0.12 | 3,320.4    | 12.7                 | 0.12  |
| C7BJLX  |           | 3,311.0    | -12.4                | -0.10 | 3,321.2    | 13.5                 | 0.12  |
| C89RUG  |           | 3,365.9    | 42.5                 | 0.34  | 3,336.0    | 28.4                 | 0.26  |
| CBM8K9  | *         | 3,649.2    | 325.8                | 2.58  | 3,576.7    | 269.0                | 2.44  |
| CHNL9V  |           | 3,351.0    | 27.6                 | 0.22  | 3,370.4    | 62.7                 | 0.57  |
| CHPCED  | X         | 2,374.0    | -949.4               | -7.51 | 2,302.0    | -1,005.7             | -9.12 |
| CJKUFE  |           | 3,447.2    | 123.8                | 0.98  | 3,504.2    | 196.5                | 1.78  |
| CPPZRB  |           | 3,440.7    | 117.3                | 0.93  | 3,370.4    | 62.7                 | 0.57  |
| DBZD2A  |           | 3,311.4    | -12.0                | -0.09 | 3,269.8    | -37.9                | -0.34 |
| DXCCHH  |           | 3,282.4    | -41.0                | -0.32 | 3,256.4    | -51.3                | -0.46 |
| EM9HMW  |           | 3,274.3    | -49.1                | -0.39 | 3,267.8    | -39.9                | -0.36 |
| EU83RC  |           | 3,347.5    | 24.1                 | 0.19  | 3,292.4    | -15.3                | -0.14 |
| F7HZAL  |           | 3,250.0    | -73.3                | -0.58 | 3,163.6    | -144.1               | -1.31 |



# Plastics Interlaboratory Testing Program

## Analysis 705

### Tensile Stress at Break - psi

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample F13 |                      |       | Sample F14 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| FAJ429  |           | 3,235.1    | -88.2                | -0.70 | 3,289.7    | -18.0                | -0.16 |
| FHU6H3  |           | 3,463.0    | 139.6                | 1.11  | 3,447.4    | 139.7                | 1.27  |
| HARWRR  |           | 3,364.9    | 41.6                 | 0.33  | 3,393.9    | 86.2                 | 0.78  |
| HKAEEKY |           | 3,281.2    | -42.2                | -0.33 | 3,276.4    | -31.3                | -0.28 |
| JFD6TX  |           | 3,393.6    | 70.2                 | 0.56  | 3,435.2    | 127.5                | 1.16  |
| K7QBFF  |           | 3,417.1    | 93.8                 | 0.74  | 3,373.6    | 65.9                 | 0.60  |
| K9APGV  |           | 3,503.6    | 180.2                | 1.43  | 3,488.2    | 180.5                | 1.64  |
| KCQRNZ  | X         | 2,974.0    | -349.4               | -2.76 | 2,878.0    | -429.7               | -3.90 |
| LBEDX7  |           | 3,153.4    | -169.9               | -1.34 | 3,169.1    | -138.6               | -1.26 |
| LER6Y7  | *         | 2,999.2    | -324.2               | -2.57 | 3,082.0    | -225.7               | -2.05 |
| LHFPU3  |           | 3,238.7    | -84.6                | -0.67 | 3,217.9    | -89.7                | -0.81 |
| LTA3RE  |           | 3,463.2    | 139.8                | 1.11  | 3,363.0    | 55.3                 | 0.50  |
| LZWXQW  |           | 3,241.0    | -82.3                | -0.65 | 3,187.4    | -120.3               | -1.09 |
| M4PEGW  |           | 3,182.4    | -141.0               | -1.12 | 3,267.6    | -40.1                | -0.36 |
| MGYT24  |           | 3,296.2    | -27.2                | -0.21 | 3,315.8    | 8.1                  | 0.07  |
| MUZNXA  |           | 3,371.4    | 48.0                 | 0.38  | 3,355.6    | 47.9                 | 0.43  |
| NXKVXX  |           | 3,372.2    | 48.8                 | 0.39  | 3,396.8    | 89.1                 | 0.81  |
| NYDT8P  |           | 3,109.9    | -213.4               | -1.69 | 3,200.7    | -107.0               | -0.97 |
| PTL437  |           | 3,291.2    | -32.2                | -0.25 | 3,310.4    | 2.7                  | 0.02  |
| RTR3C6  |           | 3,426.8    | 103.4                | 0.82  | 3,438.4    | 130.7                | 1.19  |
| TBQKXU  |           | 3,316.0    | -7.4                 | -0.06 | 3,364.0    | 56.3                 | 0.51  |
| TU7RDW  |           | 3,331.0    | 7.6                  | 0.06  | 3,341.7    | 34.1                 | 0.31  |
| TVFXCJ  |           | 3,133.0    | -190.4               | -1.51 | 3,071.2    | -236.5               | -2.14 |
| TYF6UV  |           | 3,276.6    | -46.8                | -0.37 | 3,228.7    | -78.9                | -0.72 |
| U6HGQR  |           | 3,528.5    | 205.2                | 1.62  | 3,504.1    | 196.5                | 1.78  |
| UTLL4W  |           | 3,273.2    | -50.2                | -0.40 | 3,328.0    | 20.3                 | 0.18  |
| V472WQ  |           | 3,310.6    | -12.8                | -0.10 | 3,359.2    | 51.5                 | 0.47  |
| XGGNRT  |           | 3,493.8    | 170.4                | 1.35  | 3,387.0    | 79.3                 | 0.72  |
| XHAKVT  | *         | 3,461.6    | 138.2                | 1.09  | 3,277.0    | -30.7                | -0.28 |
| XTUL23  | X         | 3,137.9    | -185.5               | -1.47 | 2,973.3    | -334.4               | -3.03 |
| YBNTKT  |           | 3,306.0    | -17.4                | -0.14 | 3,288.0    | -19.7                | -0.18 |
| ZMGLFM  |           | 3,386.0    | 62.6                 | 0.50  | 3,318.2    | 10.5                 | 0.10  |
| ZRULDE  |           | 3,154.0    | -169.4               | -1.34 | 3,144.8    | -162.9               | -1.48 |
| ZVBRDV  |           | 3,255.8    | -67.6                | -0.53 | 3,182.8    | -124.9               | -1.13 |



# Plastics Interlaboratory Testing Program

## Analysis 705

### Tensile Stress at Break - psi

Report #136

4th Qtr 2025

#### Summary Statistics

|                           | <u>Sample F13</u> | <u>Sample F14</u> |
|---------------------------|-------------------|-------------------|
| <b>Grand Means</b>        | 3,323.35 psi      | 3,307.68 psi      |
| <b>Stnd Dev Btwn Labs</b> | 126.37 psi        | 110.31 psi        |

Statistics based on 65 of 69 reporting participants

Sample F13: HIPS & Sample F14: HIPS

#### Comments on Assigned Data Flags for Test #705

- XTUL23 (X) - Data for sample F14 are low. Inconsistent within the determinations of sample F14.
- 469NPM (X) - Inconsistent in testing between samples.
- CHPCED (X) - Data for both samples are low. Possible Systematic Error.
- KCQRNZ (X) - Data for both samples are low. Possible Systematic Error.



# Plastics Interlaboratory Testing Program

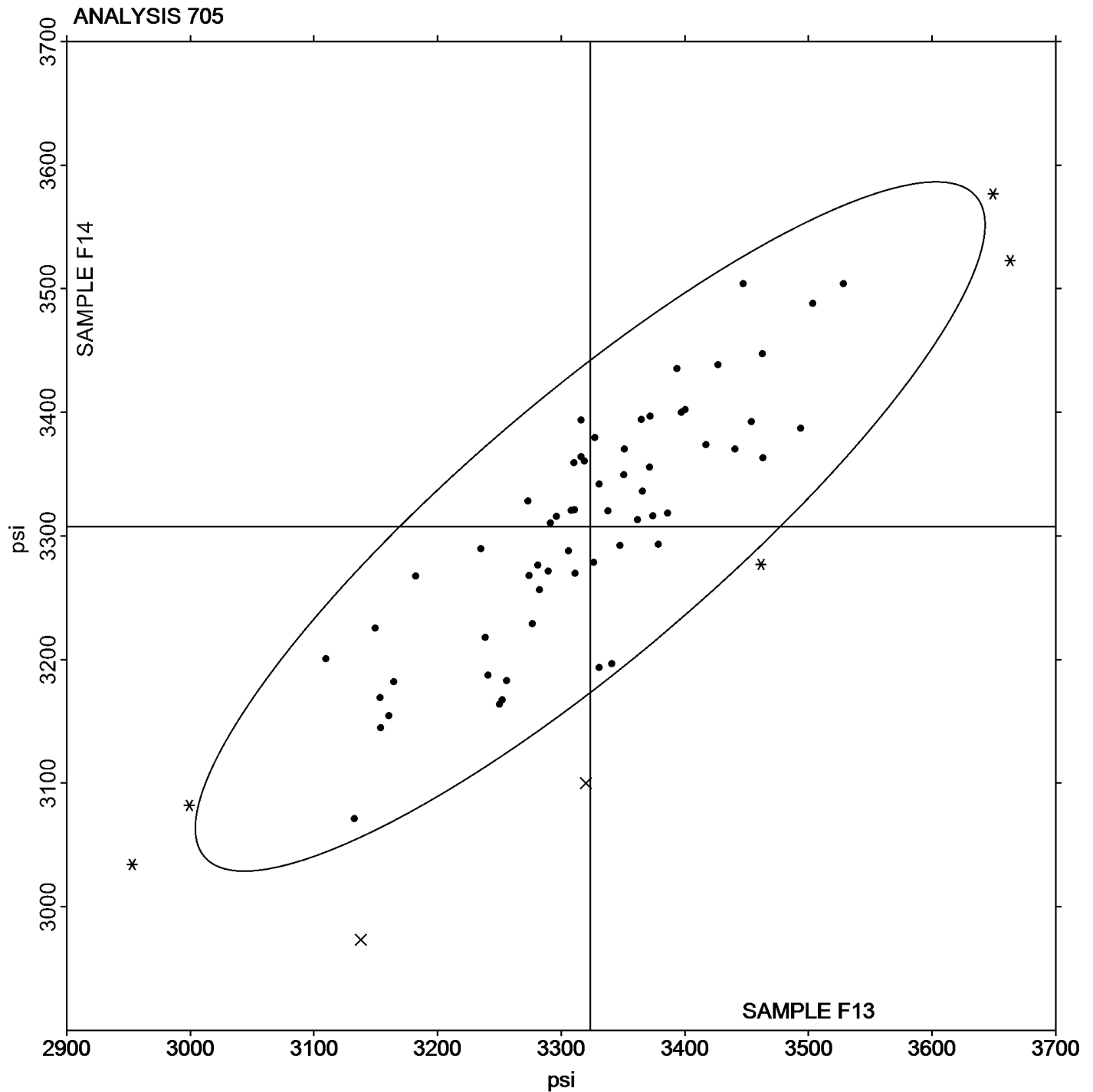
Analysis 705

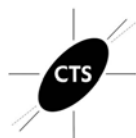
Tensile Stress at Break - psi

Report #136

4th Qtr 2025

Grand Mean Sample F13: 3,323.35 psi    Grand Mean Sample F14: 3,307.68 psi





# Plastics Interlaboratory Testing Program

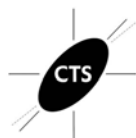
## Analysis 706

Report #136

4th Qtr 2025

### Percent Elongation at Yield - Percent

| WebCode | Data Flag | Sample F13 |                      |       | Sample F14 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| 29UYLF  |           | 1.245      | -0.118               | -1.86 | 1.239      | -0.120               | -2.19 |
| 2HJMJ4  |           | 1.278      | -0.084               | -1.33 | 1.240      | -0.118               | -2.17 |
| 3FCNKF  | X         | 2.400      | 1.038                | 16.34 | 2.500      | 1.142                | 20.93 |
| 469NPM  |           | 1.394      | 0.032                | 0.50  | 1.382      | 0.024                | 0.43  |
| 473EV3  |           | 1.388      | 0.026                | 0.40  | 1.382      | 0.024                | 0.43  |
| 4NLDYE  |           | 1.480      | 0.118                | 1.85  | 1.460      | 0.102                | 1.86  |
| 4VJ3JP  |           | 1.400      | 0.038                | 0.59  | 1.400      | 0.042                | 0.76  |
| 4WRDA2  |           | 1.286      | -0.076               | -1.20 | 1.302      | -0.056               | -1.03 |
| 6BQGER  | X         | 1.342      | -0.020               | -0.32 | 1.220      | -0.138               | -2.54 |
| 6W8YJ3  |           | 1.342      | -0.020               | -0.32 | 1.344      | -0.014               | -0.26 |
| 6WANPL  |           | 1.377      | 0.015                | 0.24  | 1.378      | 0.019                | 0.35  |
| 7PLC2J  |           | 1.395      | 0.033                | 0.52  | 1.372      | 0.014                | 0.26  |
| 7W9BHJ  |           | 1.392      | 0.030                | 0.47  | 1.382      | 0.024                | 0.44  |
| 7XH3TK  |           | 1.492      | 0.130                | 2.04  | 1.452      | 0.094                | 1.72  |
| 8QWMHM  |           | 1.350      | -0.012               | -0.19 | 1.365      | 0.007                | 0.13  |
| 8XD2KR  |           | 1.342      | -0.020               | -0.32 | 1.348      | -0.010               | -0.19 |
| 9LGC4J  |           | 1.384      | 0.022                | 0.34  | 1.376      | 0.018                | 0.32  |
| 9ZXA6D  |           | 1.324      | -0.038               | -0.60 | 1.322      | -0.036               | -0.67 |
| A2NQYL  |           | 1.280      | -0.083               | -1.30 | 1.280      | -0.079               | -1.44 |
| AEEMXY  |           | 1.390      | 0.028                | 0.43  | 1.370      | 0.012                | 0.21  |
| AHEV6U  |           | 1.420      | 0.058                | 0.91  | 1.358      | 0.000                | -0.01 |
| B9HETV  |           | 1.342      | -0.020               | -0.32 | 1.324      | -0.034               | -0.63 |
| BNUXMG  |           | 1.356      | -0.006               | -0.10 | 1.372      | 0.014                | 0.25  |
| BVBFWH  |           | 1.394      | 0.032                | 0.50  | 1.396      | 0.038                | 0.69  |
| C7BJLX  |           | 1.487      | 0.125                | 1.97  | 1.423      | 0.064                | 1.18  |
| C89RUG  |           | 1.350      | -0.012               | -0.20 | 1.334      | -0.024               | -0.45 |
| CBM8K9  |           | 1.420      | 0.058                | 0.91  | 1.400      | 0.042                | 0.76  |
| CHNL9V  |           | 1.422      | 0.060                | 0.94  | 1.438      | 0.080                | 1.46  |
| CHPCED  | *         | 1.468      | 0.106                | 1.66  | 1.382      | 0.024                | 0.43  |
| CJJ3KR  |           | 1.322      | -0.040               | -0.64 | 1.370      | 0.012                | 0.21  |
| CPPZRB  |           | 1.373      | 0.011                | 0.17  | 1.405      | 0.047                | 0.86  |
| DBZD2A  |           | 1.306      | -0.056               | -0.89 | 1.254      | -0.104               | -1.91 |
| DXCCHH  | *         | 1.232      | -0.130               | -2.05 | 1.300      | -0.058               | -1.07 |
| EM9HMW  |           | 1.400      | 0.038                | 0.59  | 1.408      | 0.050                | 0.91  |
| EU83RC  |           | 1.394      | 0.032                | 0.50  | 1.366      | 0.008                | 0.14  |



# Plastics Interlaboratory Testing Program

## Analysis 706

Report #136

4th Qtr 2025

### Percent Elongation at Yield - Percent

| WebCode | Data Flag | Sample F13 |                      |       | Sample F14 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| FAJ429  |           | 1.365      | 0.003                | 0.05  | 1.371      | 0.012                | 0.22  |
| FHU6H3  |           | 1.331      | -0.032               | -0.50 | 1.304      | -0.054               | -0.99 |
| HARWRR  |           | 1.348      | -0.014               | -0.23 | 1.370      | 0.012                | 0.21  |
| HKAEEKY |           | 1.262      | -0.100               | -1.58 | 1.324      | -0.034               | -0.63 |
| JFD6TX  |           | 1.420      | 0.058                | 0.91  | 1.368      | 0.010                | 0.18  |
| K7QBFF  |           | 1.360      | -0.002               | -0.04 | 1.340      | -0.018               | -0.34 |
| KCQRNZ  | X         | 1.108      | -0.254               | -4.01 | 1.116      | -0.242               | -4.44 |
| LBEDX7  |           | 1.378      | 0.016                | 0.25  | 1.376      | 0.018                | 0.32  |
| LER6Y7  | X         | 1.098      | -0.264               | -4.16 | 1.108      | -0.250               | -4.59 |
| LHFPU3  |           | 1.358      | -0.004               | -0.07 | 1.388      | 0.030                | 0.54  |
| LZWXQW  |           | 1.490      | 0.128                | 2.01  | 1.420      | 0.062                | 1.13  |
| M4PEGW  |           | 1.416      | 0.054                | 0.84  | 1.434      | 0.076                | 1.39  |
| MGYT24  | *         | 1.198      | -0.164               | -2.59 | 1.216      | -0.142               | -2.61 |
| MUZNXA  | *         | 1.372      | 0.009                | 0.15  | 1.435      | 0.076                | 1.40  |
| NXKVXX  | X         | 1.594      | 0.232                | 3.65  | 1.632      | 0.274                | 5.02  |
| NYDT8P  |           | 1.278      | -0.084               | -1.33 | 1.272      | -0.086               | -1.58 |
| PTL437  |           | 1.316      | -0.046               | -0.73 | 1.310      | -0.048               | -0.89 |
| RTR3C6  |           | 1.382      | 0.020                | 0.31  | 1.390      | 0.032                | 0.58  |
| TBQKXU  |           | 1.290      | -0.072               | -1.14 | 1.300      | -0.058               | -1.07 |
| TU7RDW  |           | 1.346      | -0.016               | -0.26 | 1.346      | -0.012               | -0.23 |
| TVFXCJ  | X         | 1.079      | -0.284               | -4.47 | 1.069      | -0.290               | -5.31 |
| U6HGQR  |           | 1.418      | 0.056                | 0.88  | 1.422      | 0.064                | 1.17  |
| UTLL4W  |           | 1.360      | -0.002               | -0.03 | 1.354      | -0.005               | -0.08 |
| V472WQ  |           | 1.390      | 0.028                | 0.43  | 1.398      | 0.040                | 0.73  |
| XGGNRT  |           | 1.354      | -0.008               | -0.13 | 1.344      | -0.014               | -0.26 |
| XHAKVT  |           | 1.292      | -0.070               | -1.11 | 1.298      | -0.060               | -1.11 |
| ZMGLFM  | X         | 1.390      | 0.028                | 0.43  | 1.282      | -0.076               | -1.40 |
| ZVBRDV  |           | 1.344      | -0.018               | -0.29 | 1.364      | 0.006                | 0.10  |

#### Summary Statistics

##### Grand Means

##### Sample F13

1.3624 Percent

##### Sample F14

1.3583 Percent

##### Std Dev Btwn Labs

0.0635 Percent

0.0546 Percent

Statistics based on 56 of 63 reporting participants

Sample F13: HIPS & Sample F14: HIPS



# Plastics Interlaboratory Testing Program

## Analysis 706

### Percent Elongation at Yield - Percent

Report #136

4th Qtr 2025

#### Comments on Assigned Data Flags for Test #706

- TVFXCJ (X) - Data for both samples are low. Possible Systematic Error.
- 6BQGER (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample F14.
- NXKVXX (X) - Data for both samples are high. Possible Systematic Error.
- ZMGLFM (X) - Inconsistent in testing between samples.
- KCQRNZ (X) - Data for both samples are low. Possible Systematic Error.
- 3FCNKF (X) - Data for both samples are high.
- LER6Y7 (X) - Data for both samples are low. Possible Systematic Error.

#### Results by Methodology (as reported by laboratory)

| Test Methodology                           | Sample F13<br><i>HIPS</i> |              |              | Sample F14<br><i>HIPS</i> |              |              | Labs Incl / Rpt |
|--------------------------------------------|---------------------------|--------------|--------------|---------------------------|--------------|--------------|-----------------|
|                                            | Group Mean                | Btwn Lab STD | Diff from GM | Group Mean                | Btwn Lab STD | Diff from GM |                 |
| contact extensometer to measure elongation | 1.3687                    | 0.0625       | 0.006        | 1.3631                    | 0.0506       | 0.005        | 43/49           |
| crosshead deflection/movement              | 1.3796                    | 0.0299       | 0.017        | 1.3921                    | 0.0272       | 0.034        | 5/6             |
| video extensometer                         | 1.3179                    | 0.0707       | -0.044       | 1.3119                    | 0.0646       | -0.046       | 8/8             |



# Plastics Interlaboratory Testing Program

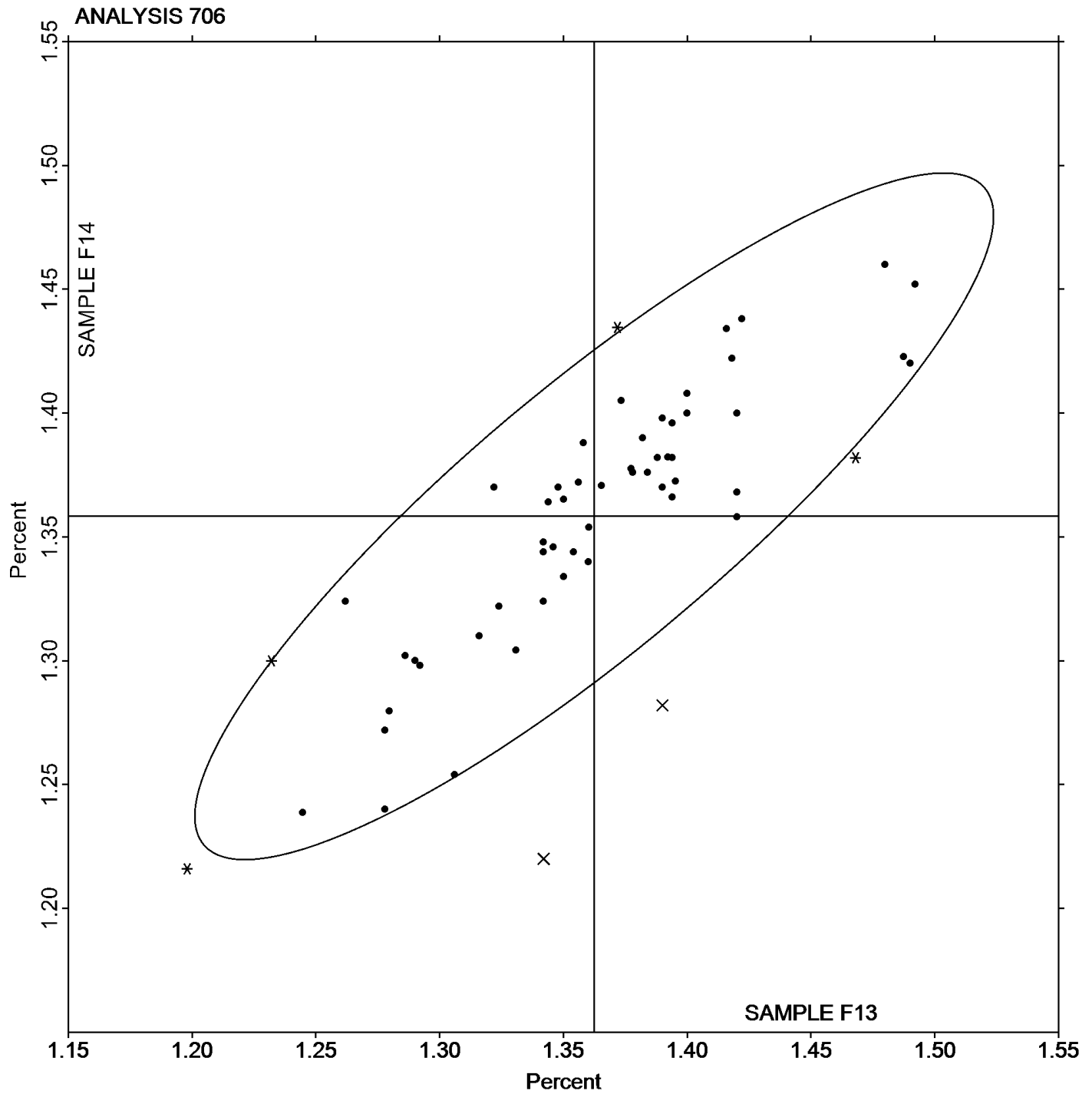
Analysis 706

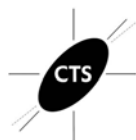
Percent Elongation at Yield - Percent

Report #136

4th Qtr 2025

Grand Mean Sample F13: 1.3624 Percent    Grand Mean Sample F14: 1.3583 Percent





# Plastics Interlaboratory Testing Program

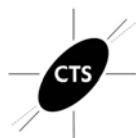
## Analysis 708

### Modulus of Elasticity - ksi

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample F13 |                      |       | Sample F14 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| 29UYLF  |           | 332.40     | -10.91               | -0.76 | 336.97     | -6.26                | -0.49 |
| 2HJMJ4  |           | 372.07     | 28.77                | 2.00  | 372.86     | 29.62                | 2.33  |
| 3FCNKF  |           | 309.80     | -33.50               | -2.33 | 312.99     | -30.24               | -2.38 |
| 469NPM  |           | 338.20     | -5.11                | -0.36 | 335.60     | -7.63                | -0.60 |
| 473EV3  |           | 349.02     | 5.71                 | 0.40  | 345.90     | 2.67                 | 0.21  |
| 4NLDYE  |           | 325.00     | -18.30               | -1.27 | 330.05     | -13.18               | -1.04 |
| 4VJ3JP  |           | 344.20     | 0.89                 | 0.06  | 344.20     | 0.97                 | 0.08  |
| 4WRDA2  |           | 357.46     | 14.15                | 0.98  | 355.56     | 12.33                | 0.97  |
| 6BQGER  |           | 351.14     | 7.83                 | 0.54  | 358.86     | 15.63                | 1.23  |
| 6W8YJ3  |           | 362.54     | 19.23                | 1.34  | 363.53     | 20.29                | 1.60  |
| 6WANPL  |           | 336.45     | -6.85                | -0.48 | 332.85     | -10.38               | -0.82 |
| 7PLC2J  |           | 327.69     | -15.62               | -1.09 | 334.42     | -8.81                | -0.69 |
| 7XH3TK  |           | 330.14     | -13.17               | -0.92 | 328.58     | -14.65               | -1.15 |
| 8QWMHM  |           | 341.13     | -2.18                | -0.15 | 335.04     | -8.19                | -0.64 |
| 8XD2KR  |           | 345.51     | 2.20                 | 0.15  | 343.28     | 0.05                 | 0.00  |
| 9LGC4J  |           | 329.37     | -13.94               | -0.97 | 332.37     | -10.86               | -0.85 |
| 9ZXA6D  | X         | 380.52     | 37.22                | 2.59  | 392.18     | 48.95                | 3.85  |
| A2NQYL  |           | 342.31     | -1.00                | -0.07 | 336.53     | -6.70                | -0.53 |
| AEEMXY  |           | 334.94     | -8.37                | -0.58 | 334.10     | -9.13                | -0.72 |
| AHEV6U  |           | 334.58     | -8.73                | -0.61 | 340.78     | -2.45                | -0.19 |
| B9HETV  |           | 352.18     | 8.87                 | 0.62  | 349.32     | 6.09                 | 0.48  |
| BNUXMG  |           | 323.08     | -20.23               | -1.41 | 329.56     | -13.67               | -1.07 |
| BVBFWH  |           | 337.39     | -5.92                | -0.41 | 330.82     | -12.41               | -0.98 |
| C7BJLX  | X         | 338.20     | -5.11                | -0.36 | 318.80     | -24.43               | -1.92 |
| C89RUG  | *         | 387.85     | 44.55                | 3.10  | 376.97     | 33.74                | 2.65  |
| CBM8K9  |           | 356.51     | 13.20                | 0.92  | 347.51     | 4.28                 | 0.34  |
| CHNL9V  |           | 347.70     | 4.39                 | 0.31  | 347.50     | 4.27                 | 0.34  |
| CHPCED  | X         | 211.00     | -132.31              | -9.20 | 216.40     | -126.83              | -9.97 |
| CJJ3KR  |           | 349.20     | 5.89                 | 0.41  | 337.40     | -5.83                | -0.46 |
| CPPZRB  |           | 349.43     | 6.12                 | 0.43  | 336.47     | -6.77                | -0.53 |
| DBZD2A  |           | 355.70     | 12.39                | 0.86  | 361.06     | 17.83                | 1.40  |
| DXCCHH  |           | 353.02     | 9.71                 | 0.68  | 353.50     | 10.27                | 0.81  |
| EU83RC  |           | 337.91     | -5.40                | -0.38 | 345.66     | 2.42                 | 0.19  |
| FAJ429  |           | 344.89     | 1.58                 | 0.11  | 346.71     | 3.47                 | 0.27  |
| FHU6H3  |           | 367.28     | 23.97                | 1.67  | 367.66     | 24.43                | 1.92  |



# Plastics Interlaboratory Testing Program

## Analysis 708

### Modulus of Elasticity - ksi

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample F13 |                      |       | Sample F14 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| HARWRR  |           | 341.48     | -1.83                | -0.13 | 345.28     | 2.05                 | 0.16  |
| HKAEEKY | X         | 373.70     | 30.39                | 2.11  | 351.12     | 7.89                 | 0.62  |
| JFD6TX  |           | 326.82     | -16.49               | -1.15 | 334.34     | -8.89                | -0.70 |
| K7QBFF  |           | 341.42     | -1.89                | -0.13 | 339.68     | -3.55                | -0.28 |
| KCQRNZ  |           | 331.80     | -11.51               | -0.80 | 330.40     | -12.83               | -1.01 |
| LBEDX7  |           | 327.85     | -15.46               | -1.08 | 329.96     | -13.27               | -1.04 |
| LER6Y7  |           | 344.30     | 0.99                 | 0.07  | 349.84     | 6.61                 | 0.52  |
| LHFPU3  |           | 342.04     | -1.27                | -0.09 | 335.65     | -7.58                | -0.60 |
| LZWXQW  |           | 342.58     | -0.73                | -0.05 | 346.73     | 3.50                 | 0.27  |
| M4PEGW  |           | 326.22     | -17.09               | -1.19 | 328.18     | -15.05               | -1.18 |
| MGYT24  |           | 362.10     | 18.79                | 1.31  | 363.00     | 19.77                | 1.55  |
| MUZNXA  | X         | 433.69     | 90.38                | 6.29  | 417.65     | 74.42                | 5.85  |
| NXKVXX  | X         | 289.20     | -54.11               | -3.76 | 286.80     | -56.43               | -4.44 |
| NYDT8P  |           | 327.24     | -16.07               | -1.12 | 336.64     | -6.60                | -0.52 |
| RTR3C6  |           | 348.00     | 4.69                 | 0.33  | 349.60     | 6.37                 | 0.50  |
| TBQKXU  |           | 359.80     | 16.49                | 1.15  | 353.20     | 9.97                 | 0.78  |
| TU7RDW  |           | 360.00     | 16.70                | 1.16  | 352.44     | 9.21                 | 0.72  |
| TVFXCJ  |           | 359.83     | 16.52                | 1.15  | 356.15     | 12.92                | 1.02  |
| U6HGQR  |           | 323.18     | -20.13               | -1.40 | 330.02     | -13.21               | -1.04 |
| UTLL4W  |           | 333.23     | -10.08               | -0.70 | 333.91     | -9.32                | -0.73 |
| V472WQ  |           | 334.94     | -8.37                | -0.58 | 340.08     | -3.15                | -0.25 |
| XGGNRT  | X         | 392.66     | 49.35                | 3.43  | 368.40     | 25.17                | 1.98  |
| XHAKVT  |           | 346.42     | 3.12                 | 0.22  | 351.59     | 8.36                 | 0.66  |
| ZMGLFM  | X         | 321.60     | -21.71               | -1.51 | 361.09     | 17.86                | 1.40  |
| ZVBRDV  |           | 346.66     | 3.35                 | 0.23  | 336.76     | -6.47                | -0.51 |

#### Summary Statistics

##### Grand Means

Sample F13

343.308 ksi

Sample F14

343.232 ksi

##### Stnd Dev Btwn Labs

14.375 ksi

12.722 ksi

Statistics based on 52 of 60 reporting participants

Sample F13: HIPS & Sample F14: HIPS



## Plastics Interlaboratory Testing Program

### Analysis 708

#### Modulus of Elasticity - ksi

Report #136

4th Qtr 2025

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#### **Comments on Assigned Data Flags for Test #708**

- C7BJLX (X) - Inconsistent in testing between samples.
- MUZNXA (X) - Data for both samples are high. Possible Systematic Error.
- CHPCED (X) - Data for both samples are low.
- NXKVXX (X) - Data for both samples are low. Possible Systematic Error.
- XGGNRT (X) - Data for sample F13 are high.
- ZMGLFM (X) - Inconsistent in testing between samples.
- 9ZXA6D (X) - Data for sample F14 are high.
- HKAKEY (X) - Inconsistent in testing between samples.



# Plastics Interlaboratory Testing Program

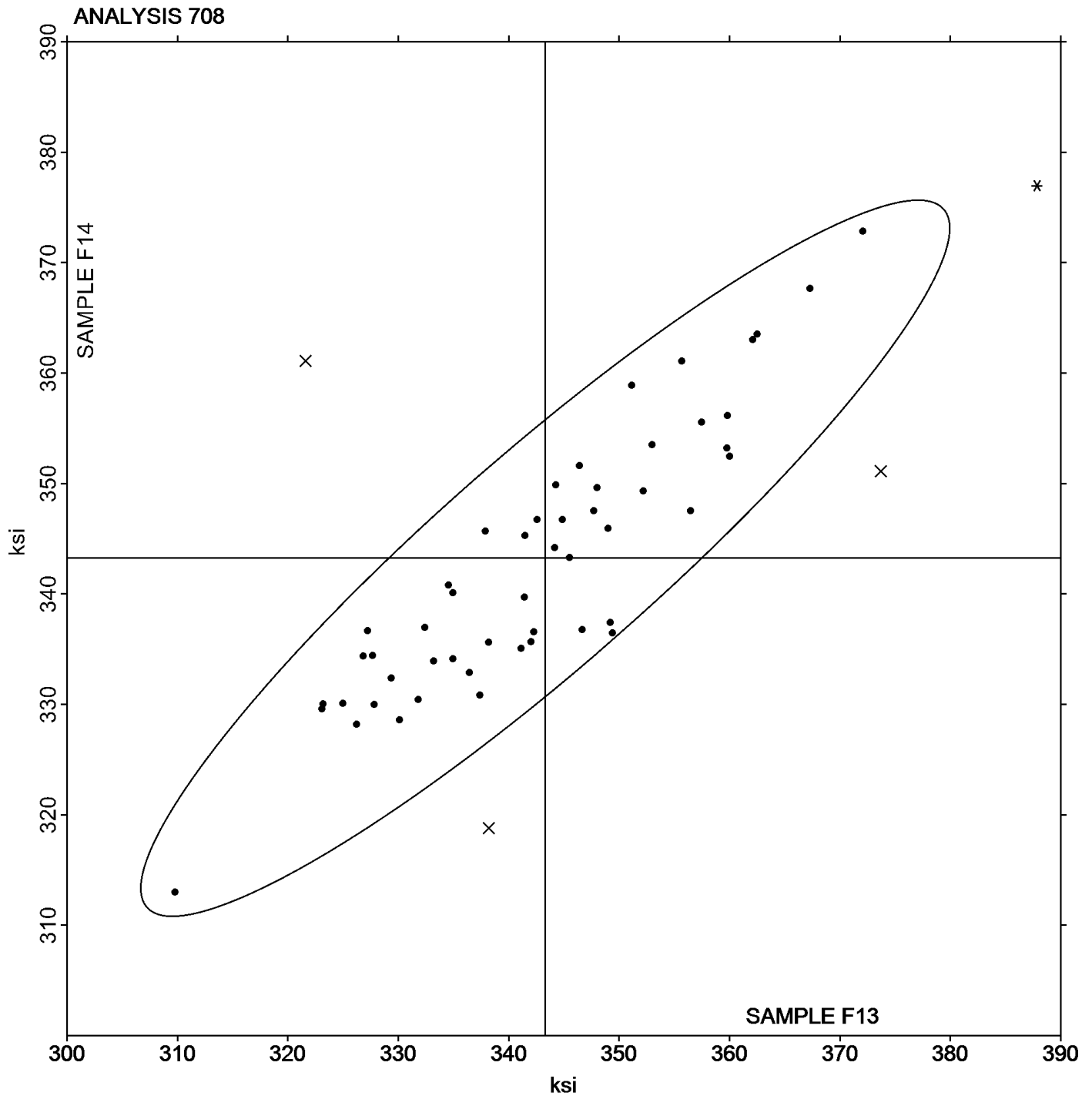
Analysis 708

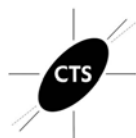
Modulus of Elasticity - ksi

Report #136

4th Qtr 2025

Grand Mean Sample F13: 343.31 ksi    Grand Mean Sample F14: 343.23 ksi





# Plastics Interlaboratory Testing Program

## Analysis 710

Report #136

4th Qtr 2025

### Deflection Temp. Under Flexural Load (1.82 MPa) - Degrees C

| WebCode | Data Flag | Sample E13                       |                      |       | Sample E14 |                      |       | Instr Code |
|---------|-----------|----------------------------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean                         | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 2HJMJ4  |           | 81.33                            | 1.53                 | 1.62  | 81.35      | 1.50                 | 1.67  | CE         |
| 473EV3  |           | 79.83                            | 0.03                 | 0.03  | 79.93      | 0.08                 | 0.09  | IN         |
| 4VJ3JP  |           | 80.83                            | 1.04                 | 1.10  | 80.60      | 0.75                 | 0.84  | CF         |
| 6W8YJ3  |           | 78.36                            | -1.44                | -1.52 | 78.34      | -1.51                | -1.68 | TO         |
| 8QWMHM  |           | 81.55                            | 1.75                 | 1.86  | 81.30      | 1.45                 | 1.62  | CE         |
| 9LGC4J  |           | 80.05                            | 0.25                 | 0.27  | 79.83      | -0.02                | -0.02 | TY         |
| AEEMXY  |           | 79.45                            | -0.35                | -0.37 | 79.00      | -0.85                | -0.94 | TO         |
| AHEV6U  |           | 79.98                            | 0.18                 | 0.19  | 80.20      | 0.35                 | 0.39  | IN         |
| CJJ3KR  |           | 78.25                            | -1.55                | -1.64 | 78.45      | -1.40                | -1.55 | TO         |
| DJFXKA  |           | 78.90                            | -0.90                | -0.95 | 79.10      | -0.75                | -0.83 | TO         |
| DXCCHH  |           | 80.08                            | 0.28                 | 0.30  | 80.05      | 0.20                 | 0.23  | IN         |
| EM9HMW  |           | 78.68                            | -1.12                | -1.19 | 78.85      | -1.00                | -1.11 | IN         |
| F7HZAL  | M         | No data reported for this sample |                      |       | 80.68      | 0.83                 | 0.92  | TO         |
| FAJ429  |           | 79.60                            | -0.19                | -0.21 | 79.33      | -0.51                | -0.57 | ZW         |
| HARWRR  |           | 77.40                            | -2.40                | -2.54 | 77.60      | -2.25                | -2.50 | TO         |
| K7QBFF  |           | 80.03                            | 0.23                 | 0.24  | 80.40      | 0.55                 | 0.61  | IN         |
| KCQRNZ  |           | 79.25                            | -0.55                | -0.58 | 79.44      | -0.41                | -0.45 | TO         |
| KUDBJM  |           | 79.58                            | -0.22                | -0.23 | 80.30      | 0.45                 | 0.50  | IN         |
| LBEDX7  |           | 79.75                            | -0.05                | -0.05 | 79.98      | 0.13                 | 0.14  | TY         |
| LER6Y7  |           | 80.40                            | 0.60                 | 0.64  | 80.40      | 0.55                 | 0.61  | IN         |
| LHFPU3  |           | 80.05                            | 0.25                 | 0.27  | 80.13      | 0.28                 | 0.31  | IN         |
| LTA3RE  |           | 79.98                            | 0.18                 | 0.19  | 79.90      | 0.05                 | 0.06  | TO         |
| LX46TT  |           | 80.07                            | 0.27                 | 0.29  | 80.50      | 0.65                 | 0.73  | CE         |
| MGYT24  |           | 79.80                            | 0.00                 | 0.00  | 79.63      | -0.22                | -0.25 | IN         |
| NXKVXX  |           | 81.15                            | 1.35                 | 1.44  | 80.93      | 1.08                 | 1.20  | AT         |
| TU7RDW  |           | 80.05                            | 0.25                 | 0.27  | 79.93      | 0.08                 | 0.09  | IN         |
| U6HGQR  |           | 80.35                            | 0.55                 | 0.59  | 80.60      | 0.75                 | 0.84  | CE         |

#### Summary Statistics

##### Grand Means

##### Sample E13

79.797 Degrees C

##### Sample E14

79.847 Degrees C

##### Std Dev Btwn Labs

0.943 Degrees C

0.899 Degrees C

Statistics based on 26 of 27 reporting participants

Sample E13: ABS & Sample E14: ABS



**Plastics Interlaboratory Testing Program**  
**Analysis 710**  
**Deflection Temp. Under Flexural Load (1.82 MPa) - Degrees C**

**Report #136**  
**4th Qtr 2025**

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**Comments on Assigned Data Flags for Test #710**

F7HZAL (M) - Participant did not submit data for sample E13.

**Key to Instrument Codes Reported by Participants**

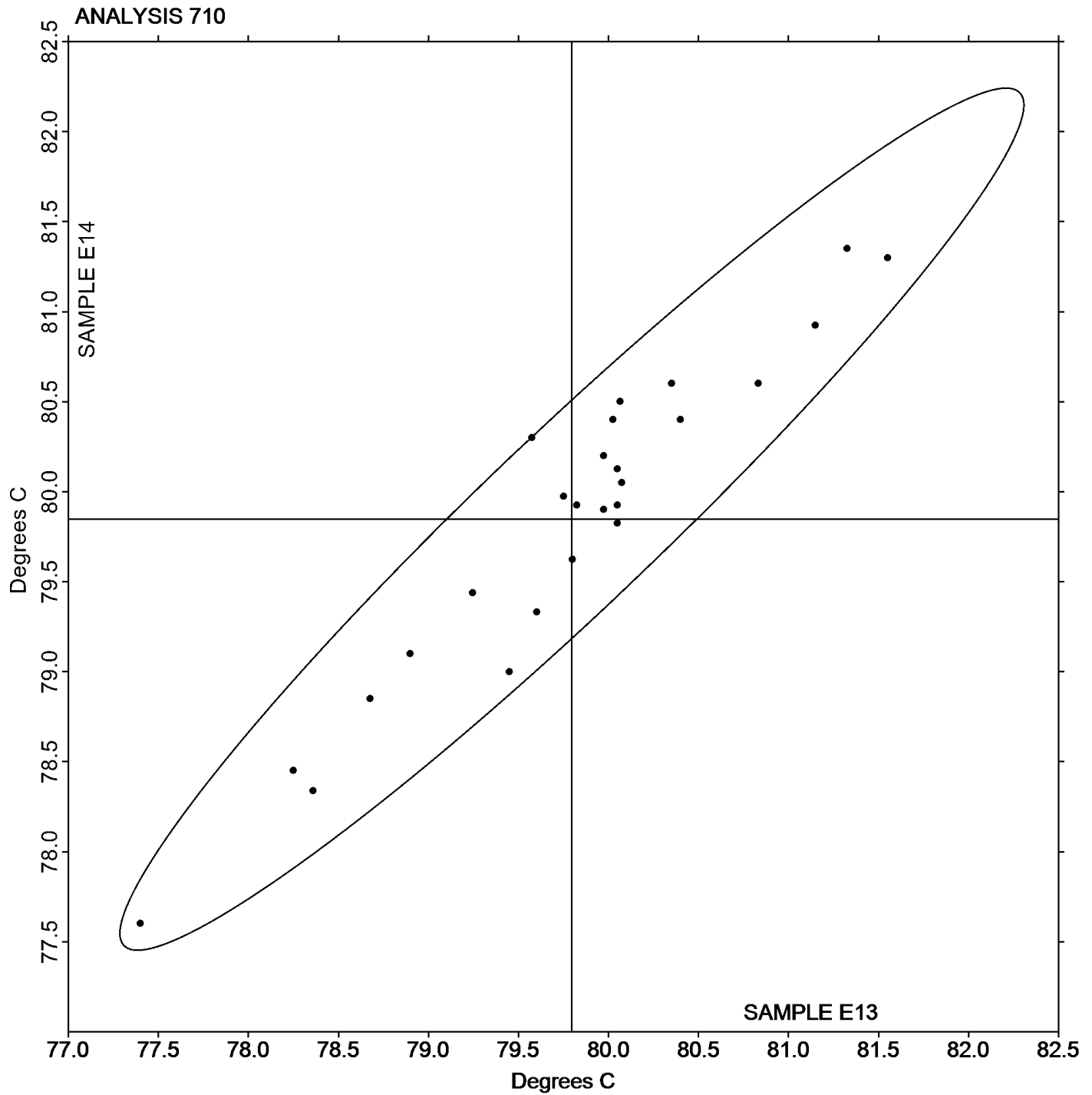
|    |              |    |           |
|----|--------------|----|-----------|
| AT | Atlas        | CE | Ceast     |
| CF | Coesfeld     | IN | Instron   |
| TO | Tinius Olsen | TY | Toyoseiki |
| ZW | Zwick        |    |           |

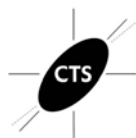


**Plastics Interlaboratory Testing Program**  
**Analysis 710**  
**Deflection Temp. Under Flexural Load (1.82 MPa) - Degrees C**

**Report #136**  
**4th Qtr 2025**

**Grand Mean Sample E13: 79.797 Degrees C    Grand Mean Sample E14: 79.847 Degrees C**





**Plastics Interlaboratory Testing Program**  
**Analysis 711**  
**Deflection Temp. Under Flexural Load (0.455 MPa) - Degrees C**

**Report #136**  
**4th Qtr 2025**

| WebCode | Data Flag | <u>Sample G13</u> |                      |       | <u>Sample G14</u> |                      |       | Instr Code |
|---------|-----------|-------------------|----------------------|-------|-------------------|----------------------|-------|------------|
|         |           | Lab Mean          | Diff from Grand Mean | CPV   | Lab Mean          | Diff from Grand Mean | CPV   |            |
| 2HJMJ4  |           | 111.8             | -0.3                 | -0.07 | 112.0             | -0.5                 | -0.10 | CE         |
| 4VJ3JP  |           | 113.0             | 0.9                  | 0.25  | 116.2             | 3.7                  | 0.75  | CE         |
| AEEMXY  | *         | 111.5             | -0.6                 | -0.16 | 121.0             | 8.5                  | 1.71  | XX         |
| AHEV6U  |           | 111.5             | -0.5                 | -0.14 | 112.3             | -0.2                 | -0.03 | IN         |
| CJJ3KR  |           | 107.8             | -4.3                 | -1.16 | 107.7             | -4.8                 | -0.96 | TO         |
| DJFXKA  |           | 115.3             | 3.2                  | 0.86  | 116.0             | 3.5                  | 0.71  | TO         |
| EM9HMW  |           | 110.3             | -1.8                 | -0.48 | 109.6             | -2.9                 | -0.58 | IN         |
| F7HZAL  |           | 111.7             | -0.4                 | -0.10 | 110.7             | -1.8                 | -0.36 | TO         |
| FAJ429  |           | 120.0             | 7.9                  | 2.14  | 119.9             | 7.5                  | 1.51  | ZW         |
| KCQRNZ  |           | 111.1             | -1.0                 | -0.27 | 109.8             | -2.6                 | -0.53 | XX         |
| LTA3RE  |           | 120.3             | 8.3                  | 2.23  | 121.1             | 8.6                  | 1.74  | TO         |
| T6LNDU  |           | 108.0             | -4.1                 | -1.10 | 107.7             | -4.8                 | -0.97 | IN         |
| TU7RDW  |           | 112.6             | 0.5                  | 0.14  | 112.9             | 0.4                  | 0.08  | IN         |
| UADAKM  |           | 108.5             | -3.6                 | -0.96 | 106.5             | -6.0                 | -1.20 | XX         |
| XDLUYX  |           | 109.3             | -2.8                 | -0.76 | 109.3             | -3.2                 | -0.65 | XX         |
| YQ2AE3  |           | 110.5             | -1.6                 | -0.42 | 107.0             | -5.5                 | -1.10 | TO         |

**Summary Statistics**

**Grand Means**

Sample G13

112.06 Degrees C

Sample G14

112.48 Degrees C

**Stnd Dev Btwn Labs**

3.70 Degrees C

4.96 Degrees C

Statistics based on 16 of 16 reporting participants

Sample G13: PP & Sample G14: PP

**Key to Instrument Codes Reported by Participants**

CE Ceast

TO Tinius Olsen

ZW Zwick

IN Instron

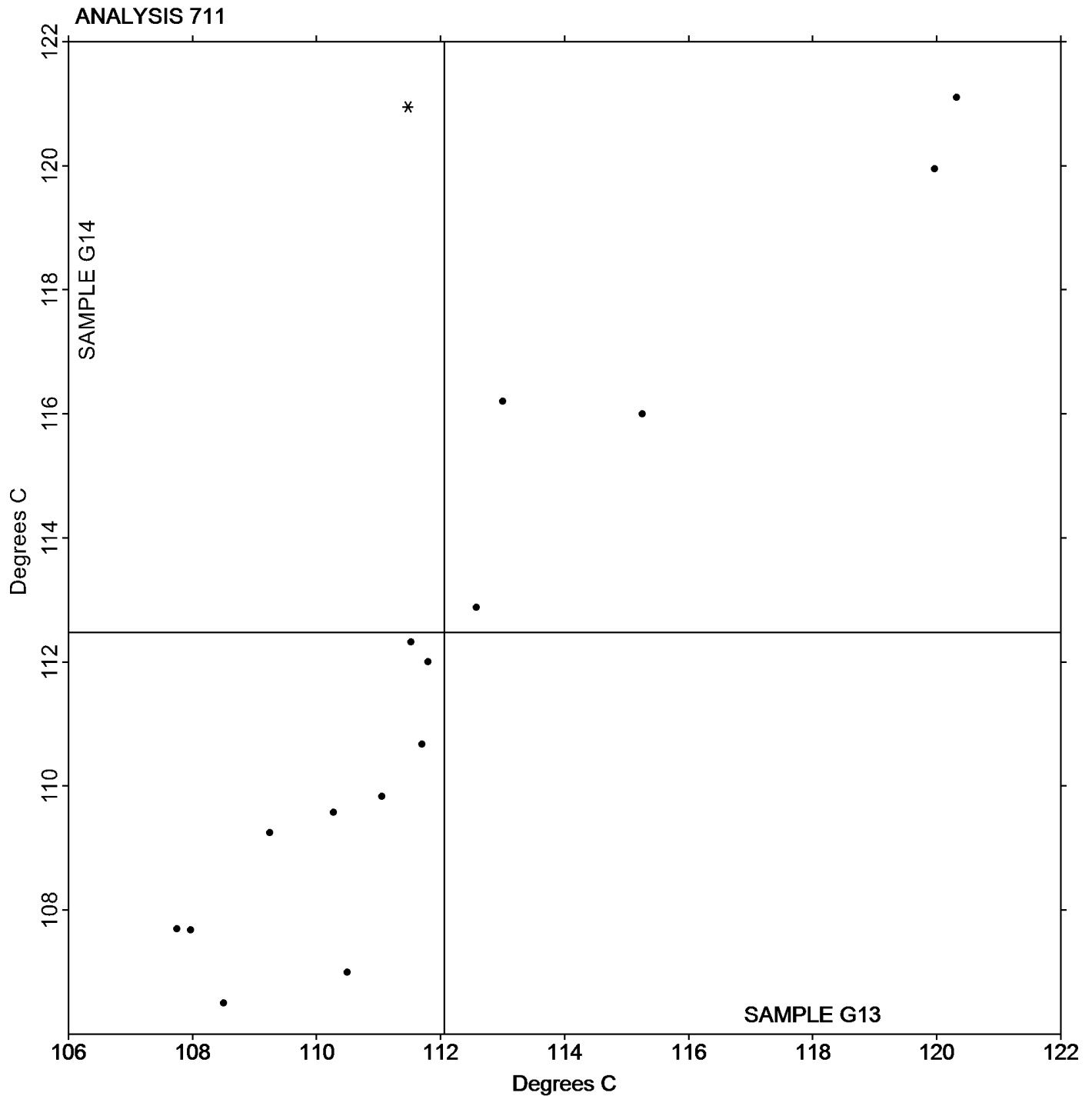
XX Instrument manufacturer not specified by lab



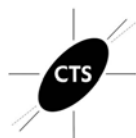
**Plastics Interlaboratory Testing Program**  
**Analysis 711**  
**Deflection Temp. Under Flexural Load (0.455 MPa) - Degrees C**

**Report #136**  
**4th Qtr 2025**

**Grand Mean Sample G13: 112.06 Degrees C    Grand Mean Sample G14: 112.48 Degrees C**



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot.



# Plastics Interlaboratory Testing Program

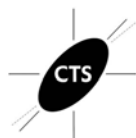
## Analysis 712

Report #136

4th Qtr 2025

### Temp. of Deflection Under Flexural Load (1.80 MPa) - Degrees C

| WebCode | Data Flag | Sample N13 |                      |       | Sample N14 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 2HJMJ4  |           | 80.33      | 0.51                 | 0.81  | 80.38      | 0.53                 | 0.86  | CE         |
| 473EV3  | X         | 78.93      | -0.89                | -1.43 | 79.93      | 0.08                 | 0.13  | IN         |
| 4VJ3JP  |           | 80.33      | 0.52                 | 0.83  | 80.03      | 0.18                 | 0.30  | CF         |
| 7WQY2Y  |           | 80.05      | 0.23                 | 0.37  | 79.98      | 0.13                 | 0.21  | TO         |
| 7ZQBXY  | X         | 76.88      | -2.94                | -4.70 | 76.83      | -3.02                | -4.96 | IN         |
| 887BUM  |           | 80.35      | 0.53                 | 0.85  | 80.50      | 0.65                 | 1.07  | CE         |
| 8XD2KR  |           | 79.03      | -0.79                | -1.27 | 79.35      | -0.50                | -0.82 | CE         |
| 9LGC4J  |           | 80.80      | 0.98                 | 1.57  | 80.75      | 0.90                 | 1.48  | TY         |
| AHEV6U  |           | 80.15      | 0.33                 | 0.53  | 80.30      | 0.45                 | 0.74  | IN         |
| CBQUZ2  |           | 79.43      | -0.39                | -0.63 | 79.40      | -0.45                | -0.74 | CE         |
| CKWUD9  |           | 80.53      | 0.71                 | 1.13  | 80.63      | 0.78                 | 1.27  | TY         |
| DJFXKA  |           | 79.08      | -0.74                | -1.19 | 78.93      | -0.92                | -1.51 | XX         |
| DWGTGG  |           | 80.07      | 0.25                 | 0.41  | 80.16      | 0.31                 | 0.51  | ZW         |
| DXCCHH  |           | 79.73      | -0.09                | -0.15 | 79.45      | -0.40                | -0.65 | IN         |
| EJA3E9  |           | 78.85      | -0.97                | -1.55 | 79.23      | -0.62                | -1.02 | CE         |
| EM9HMW  |           | 79.18      | -0.64                | -1.03 | 79.40      | -0.45                | -0.74 | CE         |
| F7HZAL  |           | 80.30      | 0.48                 | 0.77  | 80.20      | 0.35                 | 0.58  | IN         |
| GM886X  |           | 80.20      | 0.38                 | 0.61  | 80.05      | 0.20                 | 0.33  | RO         |
| JFCEMF  |           | 79.15      | -0.67                | -1.07 | 78.80      | -1.05                | -1.72 | TO         |
| K7QBFF  |           | 80.33      | 0.51                 | 0.81  | 80.20      | 0.35                 | 0.58  | IN         |
| KCQRNZ  |           | 80.55      | 0.73                 | 1.17  | 80.25      | 0.40                 | 0.66  | TO         |
| LBEDX7  |           | 80.45      | 0.63                 | 1.01  | 80.55      | 0.70                 | 1.15  | TY         |
| LER6Y7  |           | 80.50      | 0.68                 | 1.09  | 80.48      | 0.63                 | 1.03  | IN         |
| LHFPU3  |           | 80.08      | 0.26                 | 0.41  | 80.48      | 0.63                 | 1.03  | IN         |
| LKJKD7  |           | 79.95      | 0.13                 | 0.21  | 80.05      | 0.20                 | 0.33  | IN         |
| LLDBJK  | *         | 78.10      | -1.72                | -2.74 | 78.28      | -1.57                | -2.58 | TO         |
| MYVKJV  |           | 79.83      | 0.01                 | 0.01  | 79.85      | 0.00                 | 0.00  | XX         |
| N3UY4Y  |           | 80.18      | 0.36                 | 0.57  | 80.60      | 0.75                 | 1.24  | ZW         |
| NXKVXX  |           | 80.20      | 0.38                 | 0.61  | 80.23      | 0.38                 | 0.62  | AT         |
| QXUNNH  |           | 79.65      | -0.17                | -0.27 | 79.93      | 0.08                 | 0.13  | CE         |
| TQMNFY  |           | 78.95      | -0.87                | -1.39 | 79.25      | -0.60                | -0.98 | XX         |
| TU7RDW  |           | 79.50      | -0.32                | -0.51 | 79.58      | -0.27                | -0.45 | IN         |
| UADAKM  | X         | 88.98      | 9.16                 | 14.64 | 88.95      | 9.10                 | 14.92 | XX         |
| UL6WQH  |           | 79.28      | -0.54                | -0.87 | 79.38      | -0.47                | -0.78 | ZW         |
| UUG66X  |           | 79.05      | -0.77                | -1.23 | 79.10      | -0.75                | -1.23 | IN         |



# Plastics Interlaboratory Testing Program

## Analysis 712

Report #136

4th Qtr 2025

### Temp. of Deflection Under Flexural Load (1.80 MPa) - Degrees C

| WebCode | Data Flag | Sample N13 |                      |       | Sample N14 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| XDLUYX  |           | 79.78      | -0.04                | -0.07 | 79.63      | -0.22                | -0.37 | XX         |
| XK4ZXQ  |           | 79.33      | -0.49                | -0.79 | 79.08      | -0.77                | -1.27 | CE         |
| Y679PU  |           | 80.38      | 0.56                 | 0.89  | 80.30      | 0.45                 | 0.74  | IN         |

#### Summary Statistics

##### Grand Means

##### Sample N13

79.817 Degrees C

##### Sample N14

79.848 Degrees C

##### Std Dev Btwn Labs

0.626 Degrees C

0.610 Degrees C

Statistics based on 35 of 38 reporting participants

Sample N13: ABS & Sample N14: ABS

#### Comments on Assigned Data Flags for Test #712

UADAKM (X) - Data for both samples are high.

7ZQBX (X) - Data for both samples are low. Possible Systematic Error. Inconsistent within the determinations of both samples.

473EV3 (X) - Inconsistent in testing between samples.

#### Key to Instrument Codes Reported by Participants

AT Atlas

CF Coesfeld

RO Rosand

TY Toyoseiki

ZW Zwick

CE Ceast

IN Instron

TO Tinius Olsen

XX Instrument manufacturer not specified by lab



# Plastics Interlaboratory Testing Program

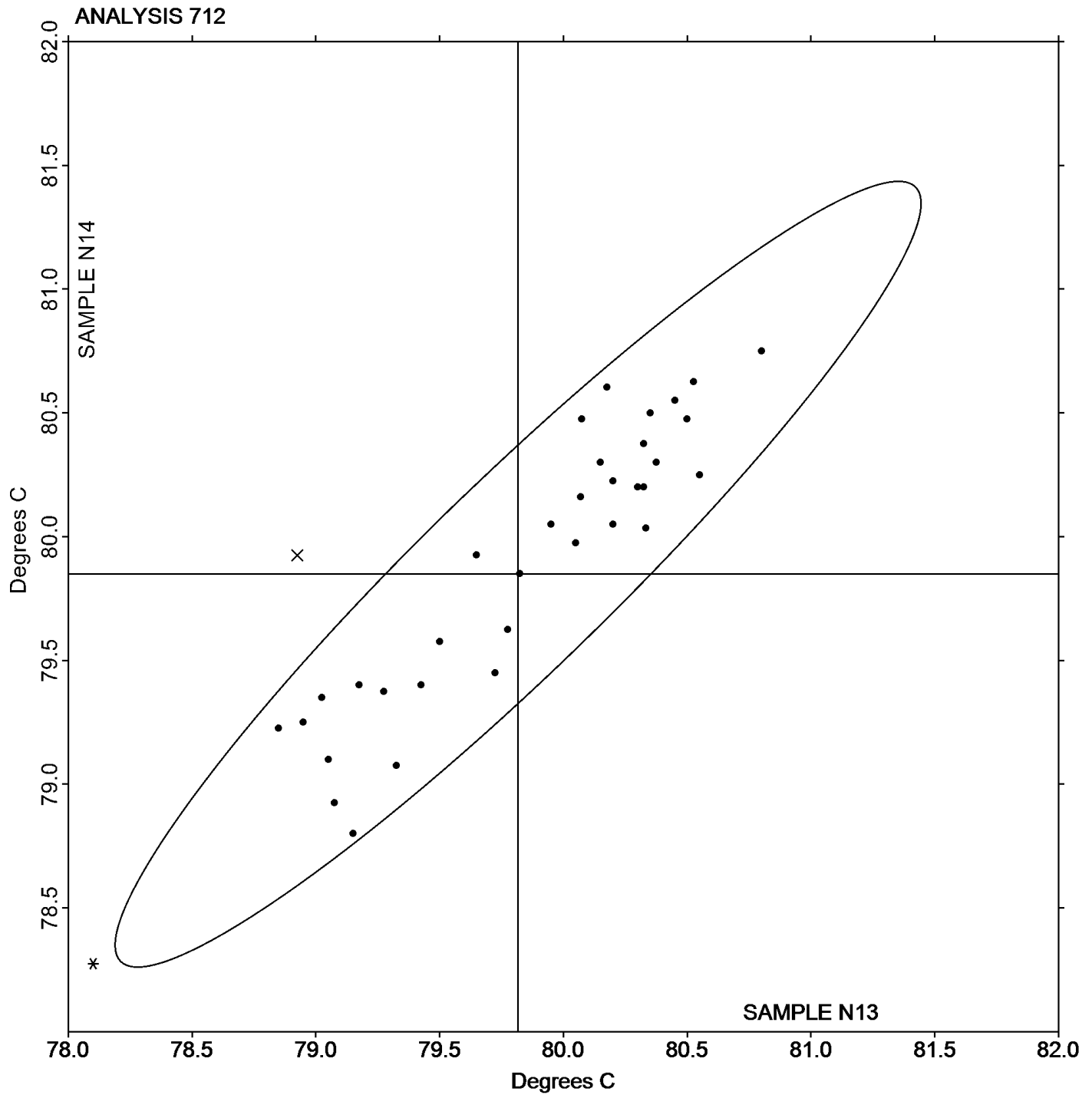
Analysis 712

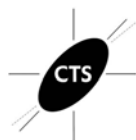
Report #136

4th Qtr 2025

Temp. of Deflection Under Flexural Load (1.80 MPa) - Degrees C

Grand Mean Sample N13: 79.817 Degrees C    Grand Mean Sample N14: 79.848 Degrees C





# Plastics Interlaboratory Testing Program

## Analysis 715

Report #136

4th Qtr 2025

### Vicat Softening Temperature (Rate A)

| WebCode | Data Flag | Sample H13 |                      |       | Sample H14 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 2HJMJ4  |           | 104.82     | 1.60                 | 1.77  | 104.92     | 1.69                 | 1.85  | CE         |
| 34J4JR  |           | 102.88     | -0.33                | -0.36 | 102.70     | -0.53                | -0.58 | IN         |
| 4VJ3JP  |           | 104.17     | 0.95                 | 1.05  | 104.20     | 0.97                 | 1.07  | CF         |
| 6KECD9  | X         | 98.22      | -5.00                | -5.50 | 98.22      | -5.01                | -5.50 | CE         |
| 887BUM  |           | 103.50     | 0.29                 | 0.32  | 103.48     | 0.26                 | 0.28  | CF         |
| 8QUULZ  |           | 103.25     | 0.04                 | 0.04  | 103.23     | 0.01                 | 0.01  | WZ         |
| 8QWMHM  |           | 104.00     | 0.79                 | 0.87  | 104.10     | 0.87                 | 0.96  | CE         |
| 9LGC4J  | *         | 103.97     | 0.75                 | 0.83  | 103.60     | 0.37                 | 0.41  | TY         |
| 9Y87ER  |           | 103.52     | 0.30                 | 0.34  | 103.58     | 0.36                 | 0.39  | CE         |
| AHEV6U  |           | 104.25     | 1.04                 | 1.14  | 104.50     | 1.27                 | 1.40  | CF         |
| CBQUZ2  |           | 103.25     | 0.04                 | 0.04  | 103.33     | 0.11                 | 0.12  | CE         |
| CHNL9V  |           | 102.68     | -0.53                | -0.58 | 102.78     | -0.44                | -0.49 | TO         |
| DXCCHH  |           | 102.93     | -0.28                | -0.31 | 102.90     | -0.33                | -0.36 | IN         |
| FAJ429  |           | 102.09     | -1.12                | -1.23 | 102.25     | -0.98                | -1.08 | WZ         |
| HARWRR  |           | 102.50     | -0.71                | -0.79 | 102.33     | -0.89                | -0.98 | TO         |
| K7QBFF  |           | 103.12     | -0.10                | -0.11 | 103.02     | -0.21                | -0.23 | AT         |
| KCQRNZ  |           | 102.79     | -0.42                | -0.46 | 102.87     | -0.36                | -0.40 | TO         |
| KUDBJM  |           | 102.70     | -0.51                | -0.56 | 102.73     | -0.49                | -0.54 | TO         |
| LER6Y7  |           | 103.68     | 0.47                 | 0.52  | 103.67     | 0.44                 | 0.48  | IN         |
| LHFPU3  |           | 103.52     | 0.30                 | 0.34  | 103.55     | 0.32                 | 0.35  | IN         |
| M4CMRL  |           | 102.45     | -0.76                | -0.84 | 102.48     | -0.74                | -0.82 | TO         |
| NXKVXX  |           | 104.10     | 0.89                 | 0.98  | 104.10     | 0.87                 | 0.96  | AT         |
| PTL437  | *         | 100.30     | -2.91                | -3.21 | 100.42     | -2.81                | -3.08 | CE         |
| TU7RDW  |           | 103.60     | 0.39                 | 0.43  | 103.73     | 0.51                 | 0.55  | IN         |
| UL6WQH  |           | 103.03     | -0.18                | -0.20 | 103.00     | -0.23                | -0.25 | WZ         |

#### Summary Statistics

##### Sample H13

##### Sample H14

#### Grand Means

103.213 Degrees C

103.228 Degrees C

#### Std Dev Btwn Labs

0.908 Degrees C

0.911 Degrees C

Statistics based on 24 of 25 reporting participants

Sample H13: ABS & Sample H14: ABS

#### Comments on Assigned Data Flags for Test #715

6KECD9 (X) - Data for both samples are low. Possible Systematic Error.



# Plastics Interlaboratory Testing Program

## Analysis 715

### Vicat Softening Temperature (Rate A)

Report #136

4th Qtr 2025

#### Key to Instrument Codes Reported by Participants

AT Atlas

CF Coesfeld

TO Tinius Olsen

WZ Zwick

CE Ceast

IN Instron

TY Toyoseiki



# Plastics Interlaboratory Testing Program

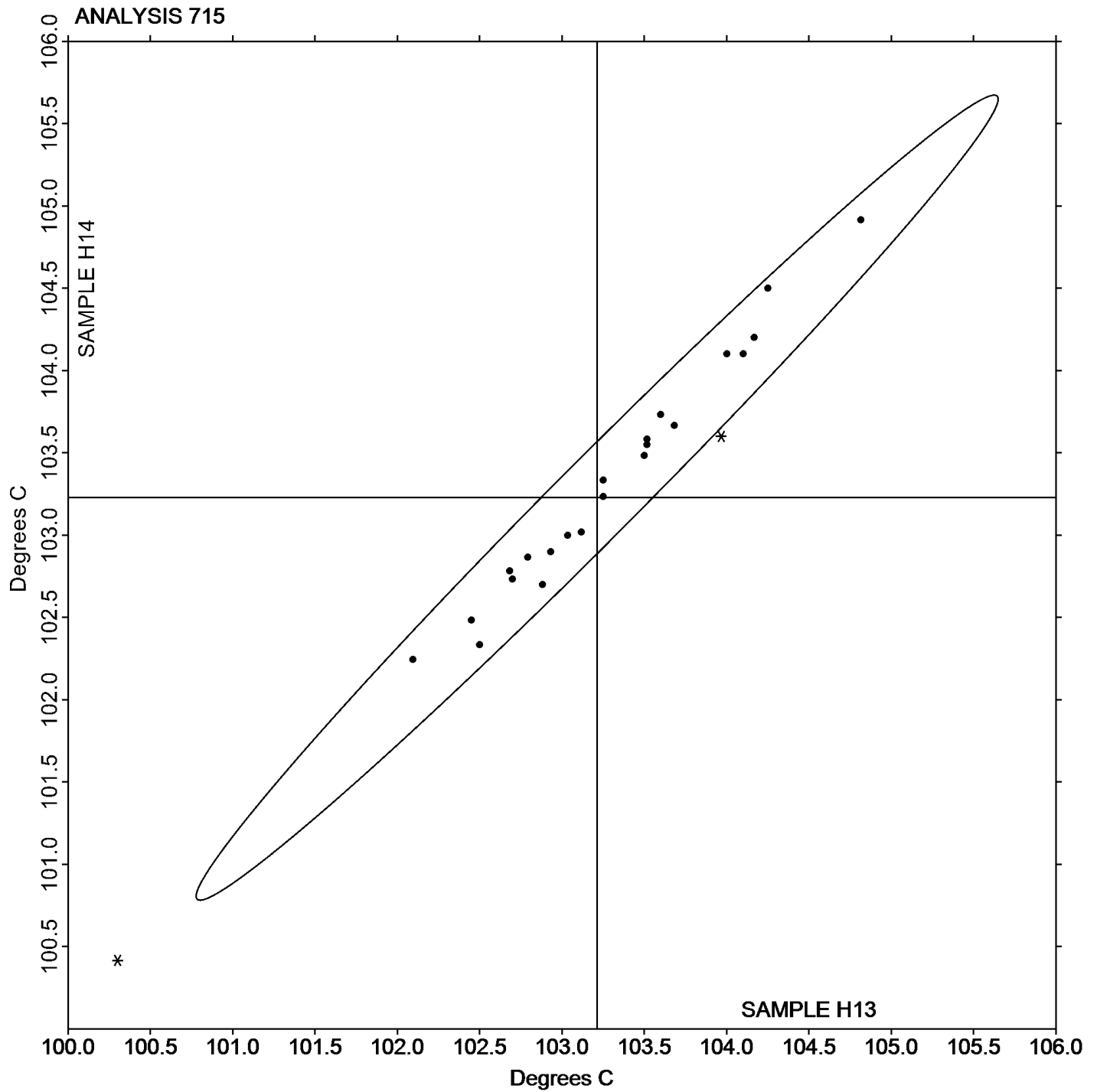
Analysis 715

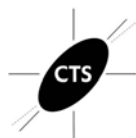
Vicat Softening Temperature (Rate A)

Report #136

4th Qtr 2025

Grand Mean Sample H13: 103.21 Degrees C    Grand Mean Sample H14: 103.23 Degrees C





# Plastics Interlaboratory Testing Program

## Analysis 716

### Vicat Softening Temperature (Rate B)

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample R13 |                      |        | Sample R14 |                      |        | Instr Code |
|---------|-----------|------------|----------------------|--------|------------|----------------------|--------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV    | Lab Mean   | Diff from Grand Mean | CPV    |            |
| 34J4JR  |           | 104.53     | -0.47                | -0.59  | 104.88     | -0.18                | -0.23  | IN         |
| 4VJ3JP  |           | 106.07     | 1.07                 | 1.35   | 105.83     | 0.77                 | 0.98   | CF         |
| 6KECD9  | X         | 98.15      | -6.85                | -8.70  | 98.32      | -6.74                | -8.58  | CE         |
| 887BUM  |           | 104.65     | -0.35                | -0.44  | 104.65     | -0.41                | -0.52  | CF         |
| 8QUULZ  | X         | 95.65      | -9.35                | -11.87 | 95.73      | -9.33                | -11.87 | WZ         |
| 8QWMHM  |           | 106.50     | 1.50                 | 1.90   | 106.82     | 1.76                 | 2.23   | CE         |
| 8XD2KR  | X         | 110.77     | 5.77                 | 7.32   | 111.60     | 6.54                 | 8.32   | CE         |
| 9LGC4J  |           | 104.80     | -0.20                | -0.25  | 104.82     | -0.24                | -0.31  | TY         |
| AHEV6U  |           | 105.67     | 0.67                 | 0.85   | 105.38     | 0.32                 | 0.41   | CF         |
| CBQUZ2  |           | 104.47     | -0.53                | -0.68  | 104.60     | -0.46                | -0.59  | CE         |
| CHNL9V  |           | 104.37     | -0.63                | -0.80  | 104.40     | -0.66                | -0.84  | TO         |
| DXCCHH  |           | 104.62     | -0.38                | -0.49  | 104.55     | -0.51                | -0.65  | IN         |
| F7HZAL  |           | 105.77     | 0.77                 | 0.97   | 105.83     | 0.77                 | 0.98   | IN         |
| FAJ429  |           | 103.94     | -1.06                | -1.35  | 104.24     | -0.82                | -1.04  | WZ         |
| HARWRR  |           | 104.00     | -1.00                | -1.27  | 104.17     | -0.89                | -1.14  | TO         |
| K7QBFF  |           | 105.22     | 0.22                 | 0.28   | 105.25     | 0.19                 | 0.24   | AT         |
| KCQRNZ  |           | 103.98     | -1.02                | -1.30  | 104.07     | -0.99                | -1.26  | TO         |
| KUDBJM  |           | 104.63     | -0.37                | -0.47  | 104.58     | -0.48                | -0.61  | TO         |
| LER6Y7  |           | 105.45     | 0.45                 | 0.57   | 105.37     | 0.31                 | 0.39   | IN         |
| LHFPU3  |           | 105.38     | 0.38                 | 0.49   | 105.30     | 0.24                 | 0.30   | IN         |
| M4CMRL  |           | 104.08     | -0.92                | -1.16  | 104.14     | -0.92                | -1.17  | TO         |
| NXKVXX  |           | 106.37     | 1.37                 | 1.74   | 106.72     | 1.66                 | 2.11   | AT         |
| TU7RDW  |           | 105.60     | 0.60                 | 0.76   | 105.65     | 0.59                 | 0.75   | IN         |
| UL6WQH  |           | 104.92     | -0.08                | -0.11  | 105.02     | -0.04                | -0.06  | WZ         |

#### Summary Statistics

##### Grand Means

Sample R13  
105.000 Degrees C

Sample R14  
105.061 Degrees C

##### Stnd Dev Btwn Labs

0.788 Degrees C

0.786 Degrees C

Statistics based on 21 of 24 reporting participants

Sample R13: ABS & Sample R14: ABS

#### Comments on Assigned Data Flags for Test #716

6KECD9 (X) - Data for both samples are low. Possible Systematic Error.

8QUULZ (X) - Data for both samples are low. Possible Systematic Error.

8XD2KR (X) - Data for both samples are high. Possible Systematic Error.



# Plastics Interlaboratory Testing Program

## Analysis 716

### Vicat Softening Temperature (Rate B)

Report #136

4th Qtr 2025

#### Key to Instrument Codes Reported by Participants

AT Atlas

CF Coesfeld

TO Tinius Olsen

WZ Zwick

CE Ceast

IN Instron

TY Toyoseiki



# Plastics Interlaboratory Testing Program

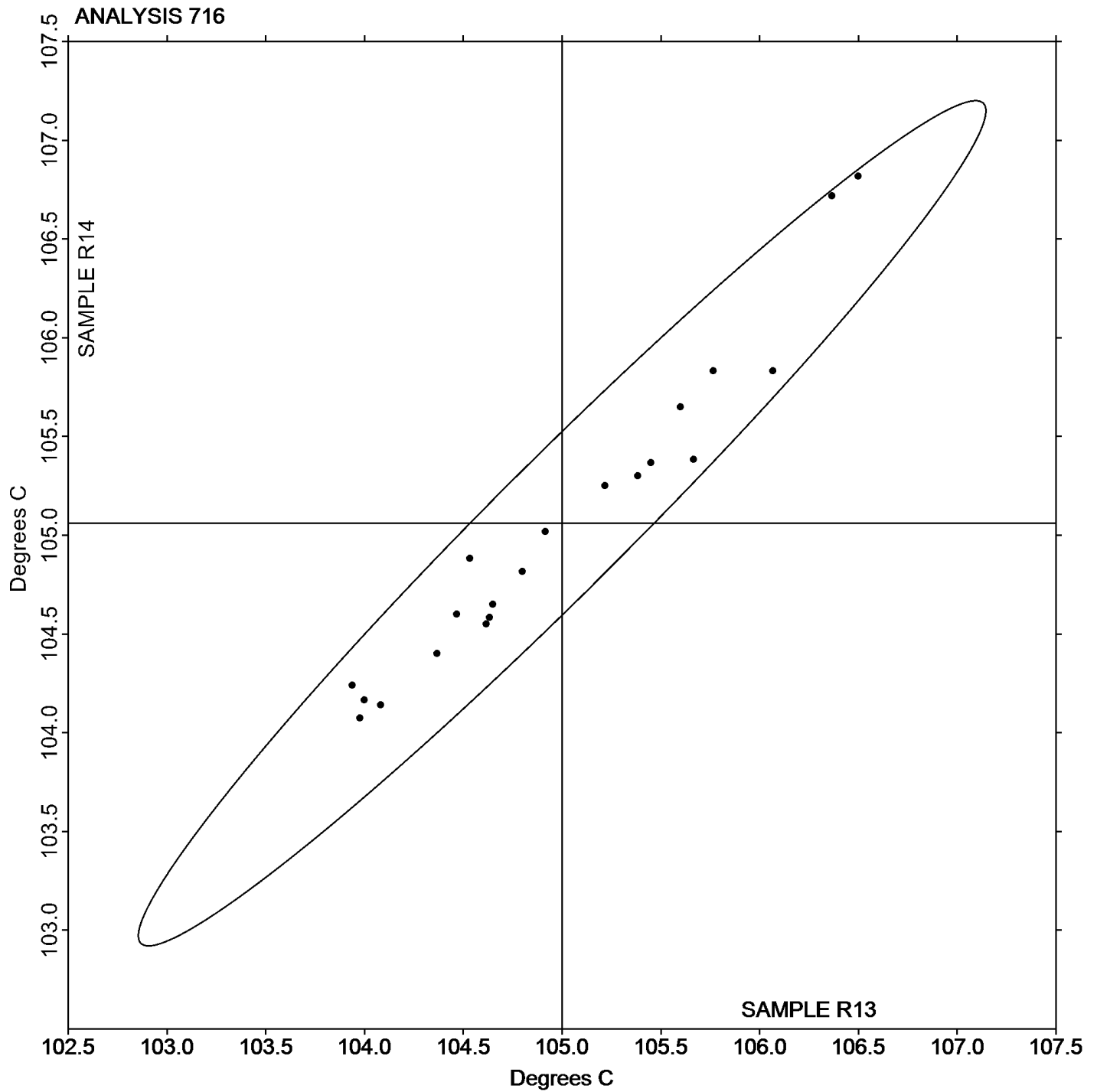
Analysis 716

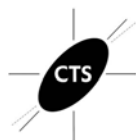
Vicat Softening Temperature (Rate B)

Report #136

4th Qtr 2025

Grand Mean Sample R13: 105.00 Degrees C    Grand Mean Sample R14: 105.06 Degrees C





# Plastics Interlaboratory Testing Program

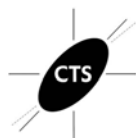
## Analysis 718

### Specific Gravity - sp gr 23/23 C

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample T13 |                      |       | Sample T14 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| 2HJMJ4  |           | 1.14073    | 0.00172              | 0.67  | 1.14003    | 0.00080              | 0.33  |
| 3AM886  | X         | 1.15680    | 0.01778              | 6.98  | 1.15503    | 0.01580              | 6.56  |
| 3EYV82  |           | 1.13960    | 0.00058              | 0.23  | 1.14140    | 0.00217              | 0.90  |
| 3FCNKF  |           | 1.13633    | -0.00268             | -1.05 | 1.13600    | -0.00323             | -1.34 |
| 3VLBBX  |           | 1.14050    | 0.00148              | 0.58  | 1.14070    | 0.00147              | 0.61  |
| 3WF2GC  | *         | 1.13400    | -0.00502             | -1.97 | 1.13733    | -0.00190             | -0.79 |
| 473EV3  |           | 1.13730    | -0.00172             | -0.67 | 1.13600    | -0.00323             | -1.34 |
| 4VJ3JP  |           | 1.13700    | -0.00202             | -0.79 | 1.13800    | -0.00123             | -0.51 |
| 697RUF  |           | 1.13807    | -0.00095             | -0.37 | 1.13827    | -0.00097             | -0.40 |
| 6BQGER  | X         | 1.13290    | -0.00612             | -2.40 | 1.13957    | 0.00033              | 0.14  |
| 6W8YJ3  |           | 1.14100    | 0.00198              | 0.78  | 1.14067    | 0.00143              | 0.59  |
| 73TBXW  |           | 1.13967    | 0.00065              | 0.26  | 1.14067    | 0.00143              | 0.59  |
| 7BBKLT  | *         | 1.14457    | 0.00555              | 2.18  | 1.14250    | 0.00327              | 1.36  |
| 7ZQBX Y |           | 1.14213    | 0.00312              | 1.22  | 1.14210    | 0.00287              | 1.19  |
| 8QWMHM  | X         | 1.12047    | -0.01855             | -7.28 | 1.12520    | -0.01403             | -5.82 |
| 8XD2KR  | X         | 1.14300    | 0.00398              | 1.56  | 1.13633    | -0.00290             | -1.20 |
| 9LGC4J  |           | 1.13567    | -0.00335             | -1.31 | 1.13667    | -0.00257             | -1.06 |
| AHEV6U  |           | 1.14160    | 0.00258              | 1.01  | 1.14170    | 0.00247              | 1.02  |
| BF3HZX  |           | 1.14000    | 0.00098              | 0.39  | 1.13933    | 0.00010              | 0.04  |
| BVBFWH  |           | 1.13800    | -0.00102             | -0.40 | 1.13767    | -0.00157             | -0.65 |
| CBQUZ2  |           | 1.13707    | -0.00195             | -0.76 | 1.13720    | -0.00203             | -0.84 |
| CHNL9V  |           | 1.14183    | 0.00282              | 1.11  | 1.14177    | 0.00253              | 1.05  |
| CJJ3KR  | *         | 1.13580    | -0.00322             | -1.26 | 1.13357    | -0.00567             | -2.35 |
| CKWUD9  |           | 1.13667    | -0.00235             | -0.92 | 1.13633    | -0.00290             | -1.20 |
| CTANQQ  |           | 1.13733    | -0.00168             | -0.66 | 1.13867    | -0.00057             | -0.24 |
| D42TWT  |           | 1.13583    | -0.00318             | -1.25 | 1.13633    | -0.00290             | -1.20 |
| DWGTGG  |           | 1.14157    | 0.00255              | 1.00  | 1.14150    | 0.00227              | 0.94  |
| DYT9BG  | X         | 1.13737    | -0.00165             | -0.65 | 1.14180    | 0.00257              | 1.06  |
| EJA3E9  |           | 1.13600    | -0.00302             | -1.18 | 1.13867    | -0.00057             | -0.24 |
| EM9H MW |           | 1.13727    | -0.00175             | -0.69 | 1.13723    | -0.00200             | -0.83 |
| F7HZAL  |           | 1.13913    | 0.00012              | 0.05  | 1.13787    | -0.00137             | -0.57 |
| FAJ429  |           | 1.14097    | 0.00195              | 0.77  | 1.14193    | 0.00270              | 1.12  |
| FBEJD6  |           | 1.14187    | 0.00285              | 1.12  | 1.14123    | 0.00200              | 0.83  |
| FFNMJ8  |           | 1.14343    | 0.00442              | 1.73  | 1.14370    | 0.00447              | 1.85  |
| H6JC7G  |           | 1.13867    | -0.00035             | -0.14 | 1.13800    | -0.00123             | -0.51 |



# Plastics Interlaboratory Testing Program

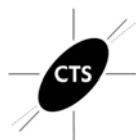
## Analysis 718

### Specific Gravity - sp gr 23/23 C

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample T13 |                      |       | Sample T14 |                      |        |
|---------|-----------|------------|----------------------|-------|------------|----------------------|--------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV    |
| HFFKMX  |           | 1.14033    | 0.00132              | 0.52  | 1.14033    | 0.00110              | 0.46   |
| K7QBFF  |           | 1.14150    | 0.00248              | 0.98  | 1.14157    | 0.00233              | 0.97   |
| KCQRNZ  | X         | 1.13900    | -0.00002             | -0.01 | 1.13300    | -0.00623             | -2.59  |
| LER6Y7  | *         | 1.13350    | -0.00552             | -2.16 | 1.13627    | -0.00297             | -1.23  |
| LHFPU3  |           | 1.14147    | 0.00245              | 0.96  | 1.14127    | 0.00203              | 0.84   |
| LKJKD7  | *         | 1.14357    | 0.00455              | 1.79  | 1.14073    | 0.00150              | 0.62   |
| LLDBJK  |           | 1.13933    | 0.00032              | 0.12  | 1.14033    | 0.00110              | 0.46   |
| LM2TC6  | X         | 1.13033    | -0.00868             | -3.41 | 1.13300    | -0.00623             | -2.59  |
| LM9V96  |           | 1.14063    | 0.00162              | 0.64  | 1.13963    | 0.00040              | 0.17   |
| LTA3RE  |           | 1.14127    | 0.00225              | 0.88  | 1.14120    | 0.00197              | 0.82   |
| LX7UZH  |           | 1.13910    | 0.00008              | 0.03  | 1.13910    | -0.00013             | -0.06  |
| LZWXQW  |           | 1.13500    | -0.00402             | -1.58 | 1.13500    | -0.00423             | -1.76  |
| MGYT24  | X         | 1.12990    | -0.00912             | -3.58 | 1.11397    | -0.02527             | -10.48 |
| MYVKJV  |           | 1.14010    | 0.00108              | 0.43  | 1.14037    | 0.00113              | 0.47   |
| N3UVEU  | *         | 1.14000    | 0.00098              | 0.39  | 1.14333    | 0.00410              | 1.70   |
| N3UY4Y  |           | 1.13633    | -0.00268             | -1.05 | 1.13567    | -0.00357             | -1.48  |
| NWLT9T  |           | 1.13817    | -0.00085             | -0.33 | 1.13800    | -0.00123             | -0.51  |
| NXKVXX  |           | 1.13400    | -0.00502             | -1.97 | 1.13467    | -0.00457             | -1.89  |
| P36H22  |           | 1.13603    | -0.00298             | -1.17 | 1.13717    | -0.00207             | -0.86  |
| PTL437  |           | 1.13463    | -0.00438             | -1.72 | 1.13613    | -0.00310             | -1.29  |
| QN7TP2  |           | 1.14053    | 0.00152              | 0.60  | 1.14073    | 0.00150              | 0.62   |
| QXUNNH  |           | 1.13800    | -0.00102             | -0.40 | 1.13800    | -0.00123             | -0.51  |
| RTR3C6  |           | 1.14000    | 0.00098              | 0.39  | 1.13990    | 0.00067              | 0.28   |
| TBQKXU  |           | 1.13850    | -0.00052             | -0.20 | 1.14063    | 0.00140              | 0.58   |
| TDWZBR  |           | 1.13740    | -0.00162             | -0.64 | 1.13955    | 0.00032              | 0.13   |
| TNEKUN  |           | 1.13777    | -0.00125             | -0.49 | 1.13723    | -0.00200             | -0.83  |
| TQMNFY  |           | 1.14067    | 0.00165              | 0.65  | 1.14183    | 0.00260              | 1.08   |
| TU7RDW  | X         | 1.38567    | 0.24665              | 96.79 | 1.13853    | -0.00070             | -0.29  |
| TZAVZA  |           | 1.13990    | 0.00088              | 0.35  | 1.14043    | 0.00120              | 0.50   |
| TZCK8R  |           | 1.14000    | 0.00098              | 0.39  | 1.14000    | 0.00077              | 0.32   |
| U6HGQR  |           | 1.14143    | 0.00242              | 0.95  | 1.14250    | 0.00327              | 1.36   |
| UADAKM  |           | 1.13600    | -0.00302             | -1.18 | 1.13600    | -0.00323             | -1.34  |
| UJVZXY  | X         | 1.12967    | -0.00935             | -3.67 | 1.13000    | -0.00923             | -3.83  |
| UL6WQH  | *         | 1.13323    | -0.00578             | -2.27 | 1.13270    | -0.00653             | -2.71  |
| UUG66X  |           | 1.13680    | -0.00222             | -0.87 | 1.13747    | -0.00177             | -0.73  |



# Plastics Interlaboratory Testing Program

## Analysis 718

### Specific Gravity - sp gr 23/23 C

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample T13 |                      |       | Sample T14 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| V698MW  |           | 1.14110    | 0.00208              | 0.82  | 1.14090    | 0.00167              | 0.69  |
| VMHTVM  |           | 1.14207    | 0.00305              | 1.20  | 1.14223    | 0.00300              | 1.24  |
| XDLUYX  |           | 1.14020    | 0.00118              | 0.46  | 1.14080    | 0.00157              | 0.65  |
| XGGNRT  |           | 1.13867    | -0.00035             | -0.14 | 1.13800    | -0.00123             | -0.51 |
| XHAKVT  |           | 1.13790    | -0.00112             | -0.44 | 1.13933    | 0.00010              | 0.04  |
| XK4ZXQ  |           | 1.13957    | 0.00055              | 0.22  | 1.13983    | 0.00060              | 0.25  |
| XTUL23  |           | 1.14133    | 0.00232              | 0.91  | 1.14067    | 0.00143              | 0.59  |
| Y2PDVV  |           | 1.14230    | 0.00328              | 1.29  | 1.14220    | 0.00297              | 1.23  |
| Y3UVKX  |           | 1.14067    | 0.00165              | 0.65  | 1.14067    | 0.00143              | 0.59  |
| Y679PU  |           | 1.14173    | 0.00272              | 1.07  | 1.14193    | 0.00270              | 1.12  |
| YATAHR  |           | 1.13757    | -0.00145             | -0.57 | 1.13673    | -0.00250             | -1.04 |
| ZB6EH3  |           | 1.14020    | 0.00118              | 0.46  | 1.13997    | 0.00073              | 0.30  |
| ZDVH9N  |           | 1.14000    | 0.00098              | 0.39  | 1.14000    | 0.00077              | 0.32  |

#### Summary Statistics

##### Grand Means

##### Sample T13

1.139015 sp gr 23/23 C

##### Sample T14

1.139234 sp gr 23/23 C

##### Stnd Dev Btwn Labs

0.002548 sp gr 23/23 C

0.002410 sp gr 23/23 C

Statistics based on 73 of 83 reporting participants

Sample T13: ABS/PC & Sample T14: ABS/PC

#### Comments on Assigned Data Flags for Test #718

- 3AM886 (X) - Data for both samples are high. Possible Systematic Error.
- 8XD2KR (X) - Inconsistent in testing between samples.
- 6BQGER (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample T13.
- DYT9BG (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample T13.
- 8QWMHM (X) - Data for both samples are low. Possible Systematic Error. Inconsistent within the determinations of both samples.
- TU7RDW (X) - Extreme data for sample T13.
- MGYT24 (X) - Data for both samples are low. Inconsistent within the determinations of sample T13.
- KCQRNZ (X) - Inconsistent in testing between samples.
- LM2TC6 (X) - Data for sample T13 are low.
- UJVZXY (X) - Data for both samples are low. Possible Systematic Error.



# Plastics Interlaboratory Testing Program

## Analysis 718

### Specific Gravity - sp gr 23/23 C

Report #136

4th Qtr 2025

#### Results by Methodology (as reported by laboratory)

| Test Methodology               | Sample T13<br><i>ABS/PC</i> |              |              | Sample T14<br><i>ABS/PC</i> |              |              | Labs Incl / Rpt |
|--------------------------------|-----------------------------|--------------|--------------|-----------------------------|--------------|--------------|-----------------|
|                                | Group Mean                  | Btwn Lab STD | Diff from GM | Group Mean                  | Btwn Lab STD | Diff from GM |                 |
| ASTM D792 Method A (water)     | 1.139065                    | 0.002646     | 0.000        | 1.139356                    | 0.002370     | 0.000        | 50/58           |
| ASTM D792 Method B (not water) | 1.137867                    | 0.001131     | -0.001       | 1.137600                    | 0.000566     | -0.002       | 2/3             |
| ISO 1183                       | 1.139026                    | 0.002486     | 0.000        | 1.139093                    | 0.002589     | 0.000        | 19/20           |



# Plastics Interlaboratory Testing Program

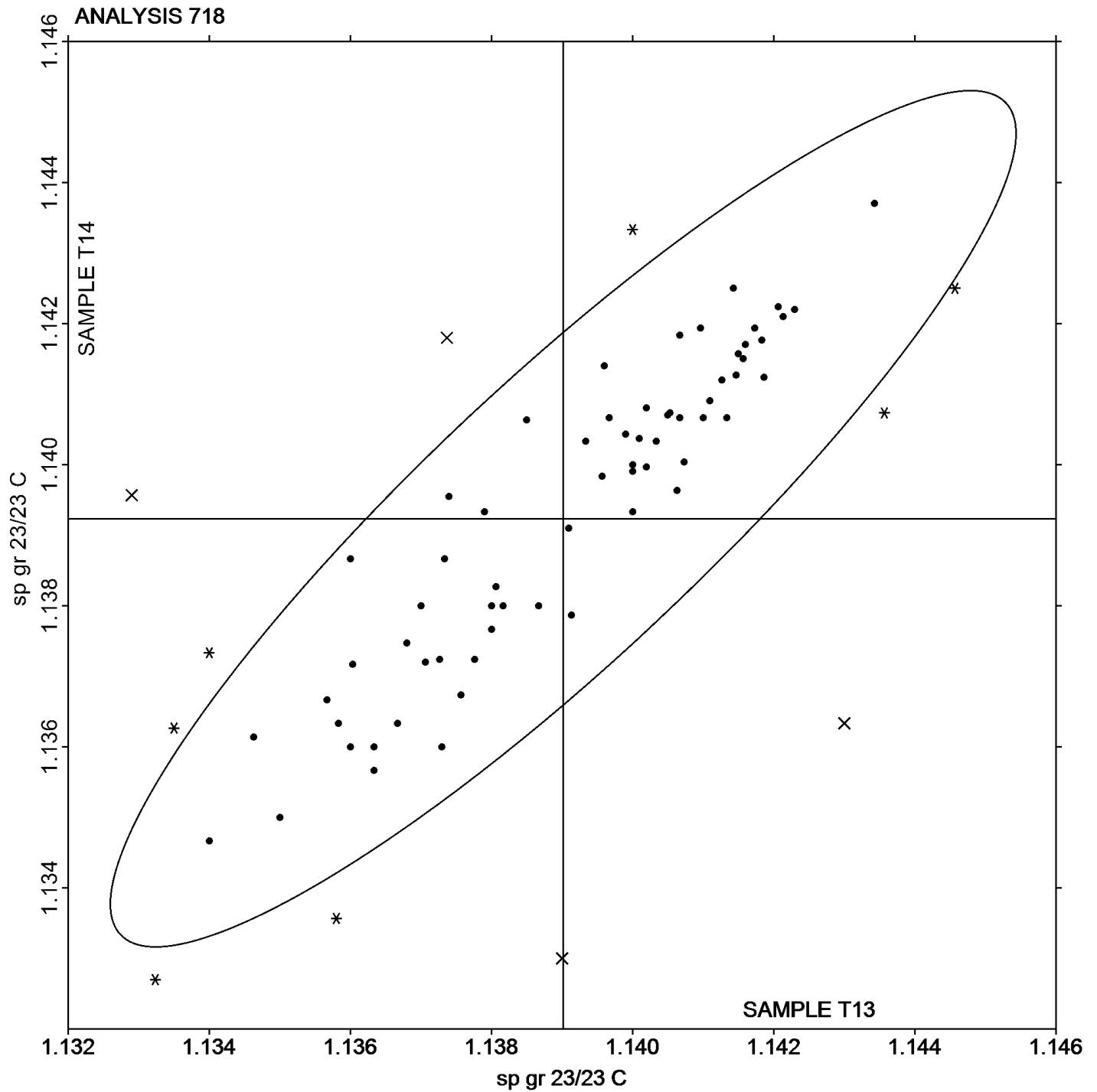
Analysis 718

Specific Gravity - sp gr 23/23 C

Report #136

4th Qtr 2025

Grand Mean Sample T13: 1.1390 sp gr 23/23 C    Grand Mean Sample T14: 1.1392 sp gr 23/23 C





# Plastics Interlaboratory Testing Program

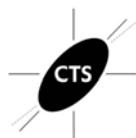
## Analysis 720

### Flexural Modulus- ksi

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample J13 |                      |       | Sample J14 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| 2HJMJ4  |           | 353.8      | 4.2                  | 0.24  | 357.0      | 7.4                  | 0.42  |
| 3AM886  |           | 362.8      | 13.2                 | 0.77  | 360.7      | 11.0                 | 0.63  |
| 3FCNKF  | X         | 262.2      | -87.4                | -5.10 | 259.3      | -90.4                | -5.19 |
| 473EV3  |           | 357.0      | 7.4                  | 0.43  | 358.7      | 9.0                  | 0.52  |
| 6BQGER  |           | 329.1      | -20.5                | -1.20 | 324.0      | -25.6                | -1.47 |
| 6LCPYF  |           | 365.5      | 15.9                 | 0.93  | 367.4      | 17.7                 | 1.02  |
| 6VYM4M  |           | 345.9      | -3.7                 | -0.22 | 341.5      | -8.2                 | -0.47 |
| 6W8YJ3  | *         | 372.8      | 23.2                 | 1.35  | 379.9      | 30.2                 | 1.73  |
| 6WANPL  |           | 372.5      | 22.9                 | 1.34  | 372.7      | 23.0                 | 1.32  |
| 7PLC2J  |           | 317.0      | -32.6                | -1.90 | 315.9      | -33.8                | -1.94 |
| 7XH3TK  |           | 356.0      | 6.4                  | 0.37  | 356.6      | 6.9                  | 0.40  |
| 8QWMHM  |           | 313.0      | -36.6                | -2.14 | 309.3      | -40.3                | -2.32 |
| 9LGC4J  |           | 343.5      | -6.2                 | -0.36 | 340.3      | -9.4                 | -0.54 |
| 9Z2WK7  |           | 374.0      | 24.4                 | 1.42  | 373.6      | 23.9                 | 1.37  |
| AEEMXY  | X         | 377.1      | 27.4                 | 1.60  | 341.5      | -8.2                 | -0.47 |
| AHEV6U  |           | 362.7      | 13.1                 | 0.76  | 361.4      | 11.8                 | 0.67  |
| ARGBRD  |           | 366.7      | 17.1                 | 1.00  | 369.7      | 20.0                 | 1.15  |
| B8PNMG  |           | 334.6      | -15.0                | -0.88 | 334.6      | -15.1                | -0.87 |
| CHPCED  |           | 355.4      | 5.8                  | 0.34  | 356.0      | 6.3                  | 0.36  |
| CJJ3KR  |           | 346.1      | -3.6                 | -0.21 | 352.6      | 3.0                  | 0.17  |
| DJFXKA  |           | 356.2      | 6.6                  | 0.38  | 354.8      | 5.1                  | 0.29  |
| EM9HMW  | X         | 237.2      | -112.5               | -6.56 | 235.5      | -114.2               | -6.56 |
| EU83RC  | *         | 357.9      | 8.3                  | 0.48  | 349.6      | -0.1                 | 0.00  |
| F7HZAL  |           | 323.7      | -26.0                | -1.52 | 326.1      | -23.6                | -1.36 |
| FAJ429  | X         | 310.1      | -39.6                | -2.31 | 330.1      | -19.6                | -1.12 |
| FBEJD6  |           | 357.6      | 8.0                  | 0.46  | 357.0      | 7.3                  | 0.42  |
| HARWRR  |           | 357.8      | 8.1                  | 0.47  | 355.5      | 5.8                  | 0.33  |
| HKAEEKY |           | 351.5      | 1.9                  | 0.11  | 355.7      | 6.0                  | 0.34  |
| K7QBFF  |           | 340.3      | -9.4                 | -0.55 | 340.6      | -9.1                 | -0.52 |
| K9APGV  |           | 336.0      | -13.6                | -0.79 | 334.3      | -15.4                | -0.88 |
| KCQRNZ  | X         | 286.2      | -63.4                | -3.70 | 288.4      | -61.3                | -3.52 |
| KU9QVJ  |           | 354.8      | 5.1                  | 0.30  | 353.5      | 3.8                  | 0.22  |
| LER6Y7  |           | 336.0      | -13.6                | -0.79 | 334.5      | -15.2                | -0.87 |
| LHFPU3  |           | 340.6      | -9.0                 | -0.53 | 347.0      | -2.7                 | -0.16 |
| LTA3RE  |           | 339.7      | -10.0                | -0.58 | 339.6      | -10.1                | -0.58 |



# Plastics Interlaboratory Testing Program

## Analysis 720

### Flexural Modulus- ksi

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample J13 |                      |       | Sample J14 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| LX7UZH  |           | 342.9      | -6.7                 | -0.39 | 342.9      | -6.8                 | -0.39 |
| MGYT24  |           | 336.2      | -13.5                | -0.79 | 339.2      | -10.5                | -0.60 |
| NXKVXX  |           | 351.2      | 1.6                  | 0.09  | 354.6      | 4.9                  | 0.28  |
| NYDT8P  | *         | 316.4      | -33.3                | -1.94 | 322.3      | -27.4                | -1.57 |
| PTL437  | *         | 397.4      | 47.7                 | 2.79  | 398.8      | 49.1                 | 2.82  |
| REDW3Q  |           | 359.6      | 9.9                  | 0.58  | 360.4      | 10.8                 | 0.62  |
| RTR3C6  |           | 342.0      | -7.6                 | -0.45 | 340.4      | -9.3                 | -0.53 |
| TBQKXU  |           | 357.6      | 7.9                  | 0.46  | 358.7      | 9.0                  | 0.52  |
| TU7RDW  |           | 380.3      | 30.6                 | 1.79  | 378.7      | 29.0                 | 1.67  |
| TYF6UV  |           | 355.5      | 5.9                  | 0.34  | 355.6      | 5.9                  | 0.34  |
| U6HGQR  |           | 335.7      | -13.9                | -0.81 | 338.3      | -11.4                | -0.65 |
| UADAKM  |           | 332.1      | -17.5                | -1.02 | 335.3      | -14.4                | -0.82 |
| UTLL4W  |           | 368.0      | 18.4                 | 1.07  | 367.9      | 18.2                 | 1.04  |
| XDLUYX  |           | 351.0      | 1.3                  | 0.08  | 347.2      | -2.5                 | -0.14 |
| XGGNRT  |           | 359.3      | 9.7                  | 0.57  | 352.8      | 3.1                  | 0.18  |
| XTUL23  |           | 350.0      | 0.4                  | 0.02  | 345.3      | -4.4                 | -0.25 |
| YQ2AE3  |           | 358.2      | 8.6                  | 0.50  | 356.8      | 7.1                  | 0.41  |
| ZG9JAL  |           | 323.4      | -26.2                | -1.53 | 322.6      | -27.1                | -1.56 |
| ZMGLFM  |           | 335.0      | -14.6                | -0.85 | 336.5      | -13.2                | -0.76 |
| ZRULDE  | X         | 461.2      | 111.6                | 6.51  | 435.3      | 85.6                 | 4.92  |

#### Summary Statistics

|                           | Sample J13 | Sample J14 |
|---------------------------|------------|------------|
| <b>Grand Means</b>        | 349.65 ksi | 349.68 ksi |
| <b>Stnd Dev Btwn Labs</b> | 17.14 ksi  | 17.42 ksi  |

Statistics based on 49 of 55 reporting participants

Sample J13: HIPS & Sample J14: HIPS

#### Comments on Assigned Data Flags for Test #720

- ZRULDE (X) - Data for both samples are high. Inconsistent within the determinations of both samples.
- EM9HMW (X) - Data for both samples are low. Possible Systematic Error.
- AEEMXY (X) - Inconsistent in testing between samples. Inconsistent within the determinations of both samples.
- FAJ429 (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample J13.
- KCQRNZ (X) - Data for both samples are low. Possible Systematic Error.
- 3FCNKF (X) - Data for both samples are low. Possible Systematic Error.



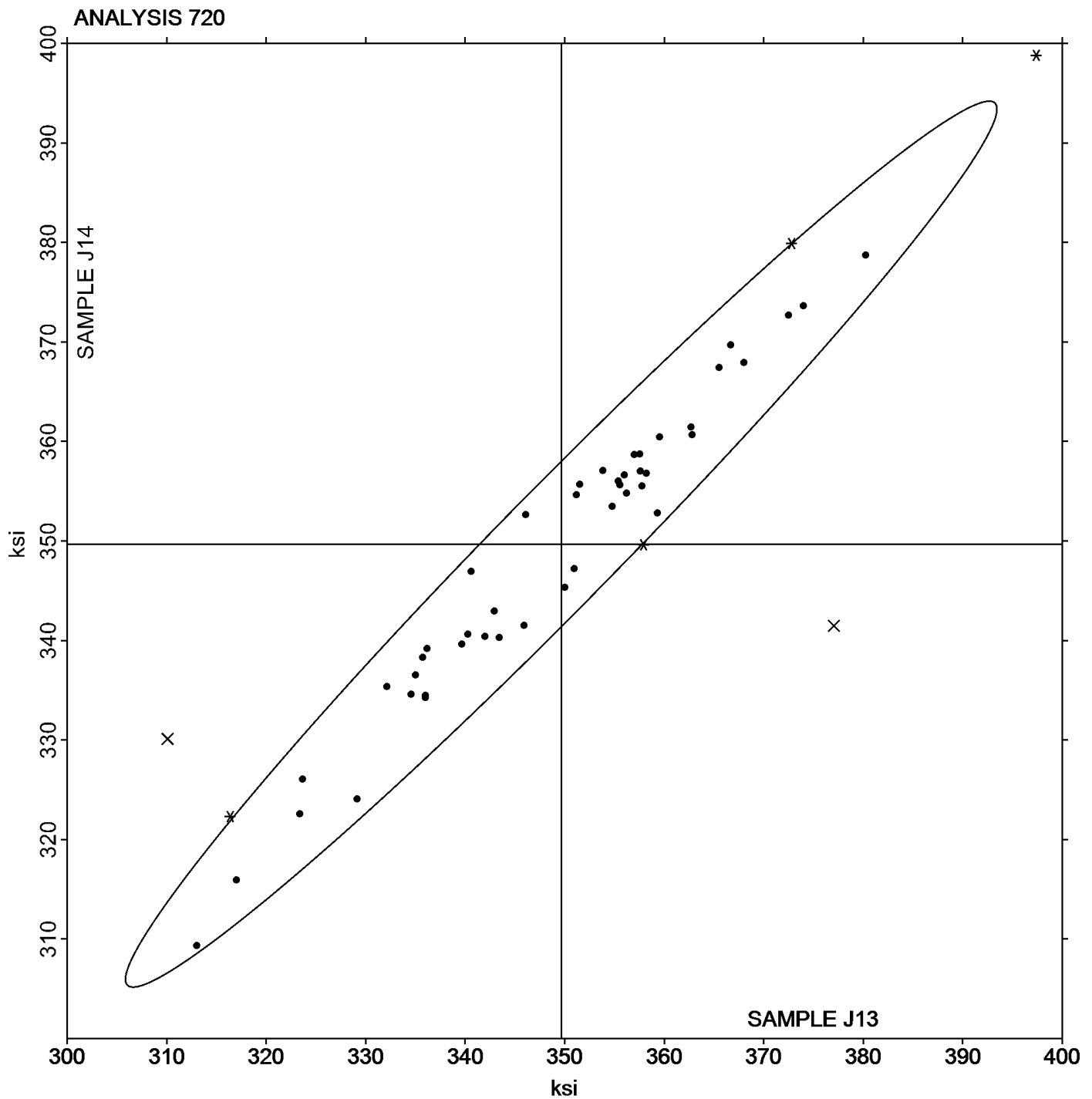
# Plastics Interlaboratory Testing Program

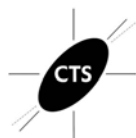
Analysis 720  
Flexural Modulus- ksi

Report #136

4th Qtr 2025

Grand Mean Sample J13: 349.65 ksi    Grand Mean Sample J14: 349.68 ksi





# Plastics Interlaboratory Testing Program

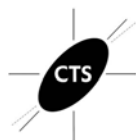
## Analysis 721

Report #136

4th Qtr 2025

### Flexural Stress at 5% Strain - psi

| WebCode | Data Flag | Sample J13 |                      |       | Sample J14 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| 3AM886  |           | 6,489      | 78                   | 0.26  | 6,458      | 36                   | 0.12  |
| 473EV3  | X         | 6,077      | -334                 | -1.11 | 5,611      | -810                 | -2.76 |
| 6BQGER  | X         | 5,954      | -457                 | -1.51 | 5,738      | -684                 | -2.33 |
| 6LCPYF  | *         | 6,287      | -124                 | -0.41 | 6,430      | 8                    | 0.03  |
| 6VYM4M  |           | 6,121      | -290                 | -0.96 | 6,121      | -301                 | -1.03 |
| 6W8YJ3  |           | 6,427      | 16                   | 0.05  | 6,451      | 29                   | 0.10  |
| 7PLC2J  |           | 6,095      | -316                 | -1.05 | 6,023      | -399                 | -1.36 |
| 7XH3TK  |           | 6,971      | 560                  | 1.86  | 7,023      | 601                  | 2.05  |
| 8QWMHM  |           | 6,515      | 104                  | 0.34  | 6,521      | 99                   | 0.34  |
| 9LGC4J  |           | 6,308      | -103                 | -0.34 | 6,314      | -107                 | -0.37 |
| 9Z2WK7  |           | 6,590      | 179                  | 0.59  | 6,662      | 240                  | 0.82  |
| AEEMXY  | X         | 5,312      | -1,099               | -3.64 | 4,547      | -1,875               | -6.39 |
| AHEV6U  |           | 6,406      | -5                   | -0.02 | 6,406      | -15                  | -0.05 |
| ARGBRD  |           | 6,392      | -19                  | -0.06 | 6,469      | 47                   | 0.16  |
| B8PNMG  |           | 6,012      | -399                 | -1.32 | 5,975      | -446                 | -1.52 |
| CHPCED  | X         | 7,018      | 607                  | 2.01  | 6,848      | 426                  | 1.45  |
| CJJ3KR  |           | 6,248      | -163                 | -0.54 | 6,296      | -126                 | -0.43 |
| DJFXKA  |           | 6,966      | 555                  | 1.84  | 6,922      | 500                  | 1.71  |
| EM9HMW  | X         | 5,191      | -1,220               | -4.05 | 5,339      | -1,083               | -3.69 |
| EU83RC  |           | 6,390      | -21                  | -0.07 | 6,359      | -63                  | -0.22 |
| FAJ429  |           | 6,359      | -53                  | -0.17 | 6,440      | 18                   | 0.06  |
| FBEJD6  |           | 6,180      | -231                 | -0.77 | 6,162      | -260                 | -0.89 |
| FHU6H3  |           | 6,522      | 111                  | 0.37  | 6,563      | 141                  | 0.48  |
| HARWRR  | *         | 7,049      | 638                  | 2.11  | 6,933      | 511                  | 1.74  |
| HKAEKY  |           | 6,249      | -162                 | -0.54 | 6,284      | -138                 | -0.47 |
| K7QBFF  |           | 6,494      | 83                   | 0.27  | 6,517      | 96                   | 0.33  |
| K9APGV  |           | 6,835      | 424                  | 1.41  | 6,829      | 407                  | 1.39  |
| KCQRNZ  |           | 6,164      | -247                 | -0.82 | 6,214      | -208                 | -0.71 |
| KU9QVJ  |           | 6,324      | -87                  | -0.29 | 6,379      | -43                  | -0.15 |
| LER6Y7  |           | 5,802      | -609                 | -2.02 | 5,773      | -649                 | -2.21 |
| LHFPU3  |           | 6,405      | -6                   | -0.02 | 6,460      | 38                   | 0.13  |
| LTA3RE  |           | 6,436      | 25                   | 0.08  | 6,434      | 13                   | 0.04  |
| MGYT24  |           | 6,151      | -260                 | -0.86 | 6,217      | -205                 | -0.70 |
| NXJ32B  |           | 6,515      | 104                  | 0.35  | 6,506      | 85                   | 0.29  |
| NXKVXX  |           | 6,403      | -8                   | -0.03 | 6,435      | 13                   | 0.04  |



# Plastics Interlaboratory Testing Program

## Analysis 721

Report #136

4th Qtr 2025

### Flexural Stress at 5% Strain - psi

| WebCode | Data Flag | Sample J13 |                      |       | Sample J14 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| NYDT8P  |           | 5,847      | -564                 | -1.87 | 5,870      | -552                 | -1.88 |
| PTL437  |           | 6,782      | 371                  | 1.23  | 6,768      | 347                  | 1.18  |
| REDW3Q  |           | 6,945      | 534                  | 1.77  | 6,949      | 527                  | 1.80  |
| RTR3C6  |           | 6,106      | -305                 | -1.01 | 6,116      | -306                 | -1.04 |
| TBQKXU  |           | 6,498      | 87                   | 0.29  | 6,475      | 53                   | 0.18  |
| TU7RDW  |           | 6,500      | 89                   | 0.29  | 6,480      | 59                   | 0.20  |
| TYF6UV  |           | 6,989      | 578                  | 1.92  | 6,958      | 536                  | 1.83  |
| U6HGQR  |           | 6,034      | -377                 | -1.25 | 6,071      | -351                 | -1.19 |
| UTLL4W  |           | 6,366      | -45                  | -0.15 | 6,429      | 7                    | 0.02  |
| XGGNRT  | X         | 5,900      | -511                 | -1.69 | 6,180      | -242                 | -0.82 |
| ZG9JAL  |           | 6,140      | -271                 | -0.90 | 6,152      | -269                 | -0.92 |
| ZMGLFM  |           | 6,628      | 217                  | 0.72  | 6,531      | 109                  | 0.37  |
| ZRULDE  |           | 6,324      | -87                  | -0.29 | 6,341      | -81                  | -0.27 |

#### Summary Statistics

##### Grand Means

##### Sample J13

6,411.1 psi

##### Sample J14

6,421.8 psi

##### Std Dev Btwn Labs

301.6 psi

293.3 psi

Statistics based on 42 of 48 reporting participants

Sample J13: HIPS & Sample J14: HIPS

#### Comments on Assigned Data Flags for Test #721

- EM9HMW (X) - Data for both samples are low. Possible Systematic Error. Inconsistent within the determinations of sample J13.
- AEEMXY (X) - Data for both samples are low. Possible Systematic Error. Inconsistent within the determinations of both samples.
- 473EV3 (X) - Data for sample J14 are low. Inconsistent within the determinations of both samples.
- 6BQGER (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample J13.
- CHPCED (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample J14.
- XGGNRT (X) - Inconsistent in testing between samples. Inconsistent within the determinations of both samples.



# Plastics Interlaboratory Testing Program

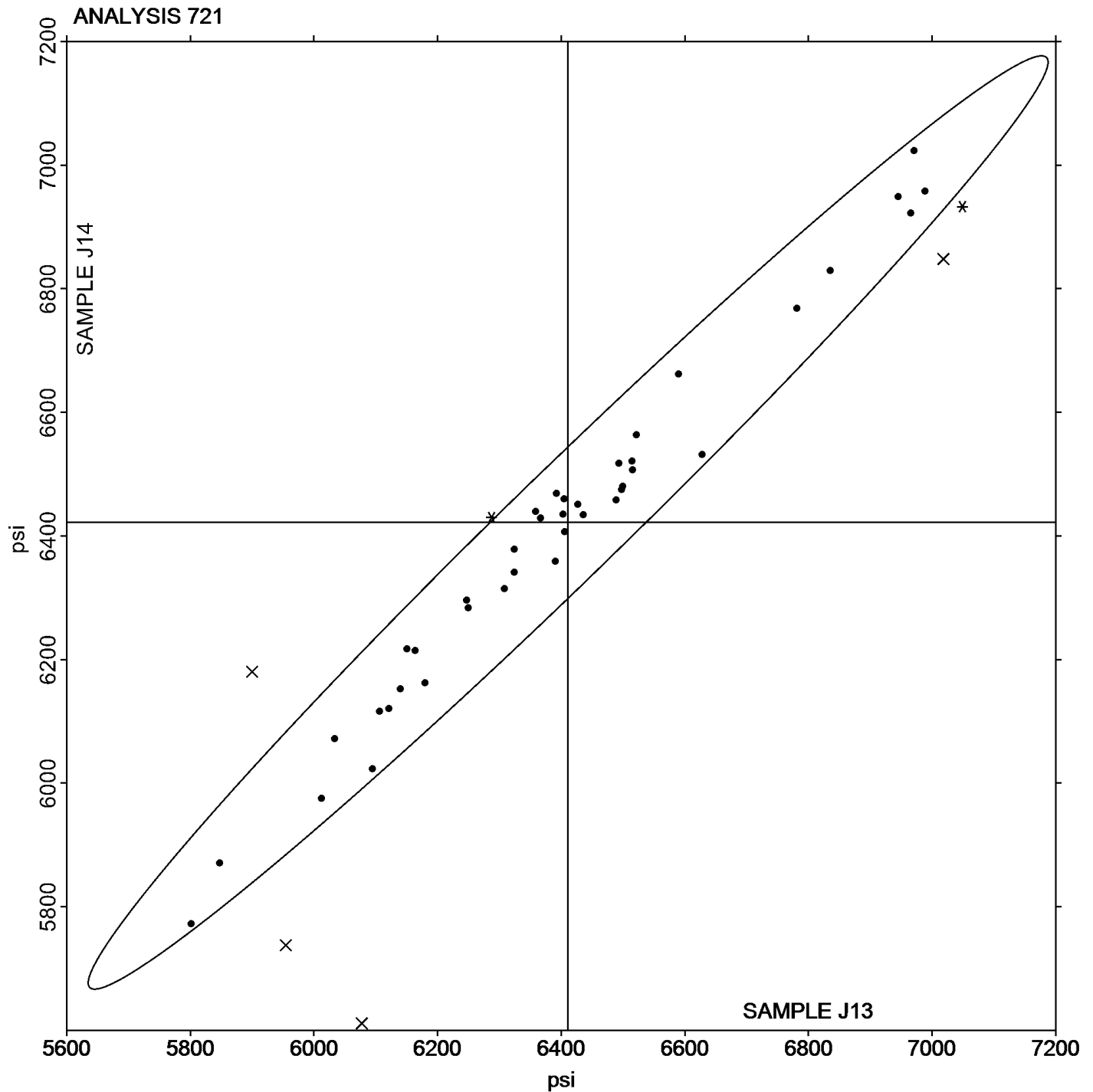
## Analysis 721

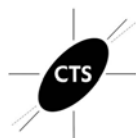
Flexural Stress at 5% Strain - psi

Report #136

4th Qtr 2025

Grand Mean Sample J13: 6,411.05 psi    Grand Mean Sample J14: 6,421.83 psi





# Plastics Interlaboratory Testing Program

## Analysis 722

### Flexural Stress at Yield - psi

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample J13 |                      |       | Sample J14                       |                      |       |
|---------|-----------|------------|----------------------|-------|----------------------------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean                         | Diff from Grand Mean | CPV   |
| 3AM886  |           | 6,481      | 159                  | 0.36  | 6,597                            | 260                  | 0.60  |
| 3FCNKF  |           | 5,906      | -415                 | -0.93 | 5,871                            | -466                 | -1.07 |
| 473EV3  | X         | 6,079      | -242                 | -0.54 | 5,619                            | -718                 | -1.66 |
| 6BQGER  | *         | 6,005      | -316                 | -0.71 | 5,788                            | -549                 | -1.27 |
| 6LCPYF  |           | 6,334      | 13                   | 0.03  | 6,485                            | 148                  | 0.34  |
| 6VYM4M  |           | 6,114      | -208                 | -0.47 | 6,108                            | -229                 | -0.53 |
| 6W8YJ3  |           | 6,415      | 94                   | 0.21  | 6,420                            | 83                   | 0.19  |
| 7PLC2J  | *         | 5,239      | -1,082               | -2.43 | 5,170                            | -1,167               | -2.69 |
| 7XH3TK  |           | 6,944      | 622                  | 1.40  | 6,954                            | 617                  | 1.42  |
| 8QWMHM  |           | 6,537      | 215                  | 0.48  | 6,544                            | 207                  | 0.48  |
| 9LGC4J  |           | 6,312      | -9                   | -0.02 | 6,324                            | -13                  | -0.03 |
| 9Z2WK7  |           | 6,450      | 129                  | 0.29  | 6,578                            | 241                  | 0.56  |
| AEEMXY  | X         | 5,339      | -983                 | -2.21 | 4,583                            | -1,754               | -4.04 |
| AHEV6U  |           | 6,410      | 88                   | 0.20  | 6,410                            | 73                   | 0.17  |
| ARGBRD  |           | 6,476      | 155                  | 0.35  | 6,544                            | 207                  | 0.48  |
| B8PNMG  |           | 6,329      | 7                    | 0.02  | 6,290                            | -47                  | -0.11 |
| CHPCED  |           | 7,098      | 777                  | 1.74  | 6,930                            | 593                  | 1.37  |
| DJFXKA  |           | 6,988      | 667                  | 1.50  | 6,959                            | 622                  | 1.43  |
| EM9HMW  | *         | 5,225      | -1,096               | -2.46 | 5,370                            | -967                 | -2.23 |
| EU83RC  |           | 6,390      | 69                   | 0.15  | 6,370                            | 33                   | 0.08  |
| F7HZAL  |           | 6,310      | -11                  | -0.02 | 6,347                            | 10                   | 0.02  |
| FAJ429  |           | 6,376      | 54                   | 0.12  | 6,463                            | 126                  | 0.29  |
| FBEJD6  |           | 6,176      | -145                 | -0.33 | 6,160                            | -177                 | -0.41 |
| HARWRR  |           | 7,078      | 756                  | 1.70  | 6,962                            | 625                  | 1.44  |
| HKAEKY  |           | 6,251      | -70                  | -0.16 | 6,287                            | -50                  | -0.12 |
| K7QBFF  |           | 6,591      | 269                  | 0.60  | 6,609                            | 272                  | 0.63  |
| K9APGV  |           | 5,419      | -903                 | -2.03 | 5,424                            | -913                 | -2.11 |
| KCQRNZ  | M         | 2,480      | -3,841               | -8.62 | No data reported for this sample |                      |       |
| KU9QVJ  |           | 6,361      | 40                   | 0.09  | 6,424                            | 87                   | 0.20  |
| LER6Y7  |           | 6,008      | -313                 | -0.70 | 6,012                            | -325                 | -0.75 |
| LHFPU3  |           | 6,409      | 87                   | 0.20  | 6,462                            | 125                  | 0.29  |
| LTA3RE  |           | 6,620      | 298                  | 0.67  | 6,607                            | 270                  | 0.62  |
| LX7UZZ  |           | 6,413      | 92                   | 0.21  | 6,408                            | 71                   | 0.16  |
| NYDT8P  |           | 5,931      | -390                 | -0.88 | 5,943                            | -394                 | -0.91 |
| REDW3Q  |           | 6,956      | 634                  | 1.42  | 6,976                            | 639                  | 1.47  |



# Plastics Interlaboratory Testing Program

## Analysis 722

### Flexural Stress at Yield - psi

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample J13 |                      |       | Sample J14 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| TYF6UV  |           | 7,049      | 727                  | 1.63  | 7,132      | 795                  | 1.83  |
| U6HGQR  |           | 6,054      | -268                 | -0.60 | 6,097      | -240                 | -0.55 |
| UTLL4W  |           | 6,031      | -290                 | -0.65 | 6,079      | -258                 | -0.59 |
| XGGNRT  | *         | 5,669      | -652                 | -1.46 | 5,939      | -398                 | -0.92 |
| YQ2AE3  |           | 6,290      | -31                  | -0.07 | 6,298      | -39                  | -0.09 |
| ZG9JAL  |           | 6,192      | -130                 | -0.29 | 6,190      | -147                 | -0.34 |
| ZMGLFM  |           | 6,638      | 316                  | 0.71  | 6,541      | 204                  | 0.47  |
| ZRULDE  |           | 6,385      | 63                   | 0.14  | 6,408      | 71                   | 0.16  |

#### Summary Statistics

##### Grand Means

##### Sample J13

6,321.5 psi

##### Sample J14

6,337.0 psi

##### Stnd Dev Btwn Labs

445.4 psi

433.8 psi

Statistics based on 40 of 43 reporting participants

Sample J13: HIPS & Sample J14: HIPS

#### Comments on Assigned Data Flags for Test #722

AEMXY (X) - Data for sample J14 are low. Inconsistent within the determinations of both samples.

473EV3 (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample J13.

KCQRNZ (M) - Participant did not submit data for sample J14.



# Plastics Interlaboratory Testing Program

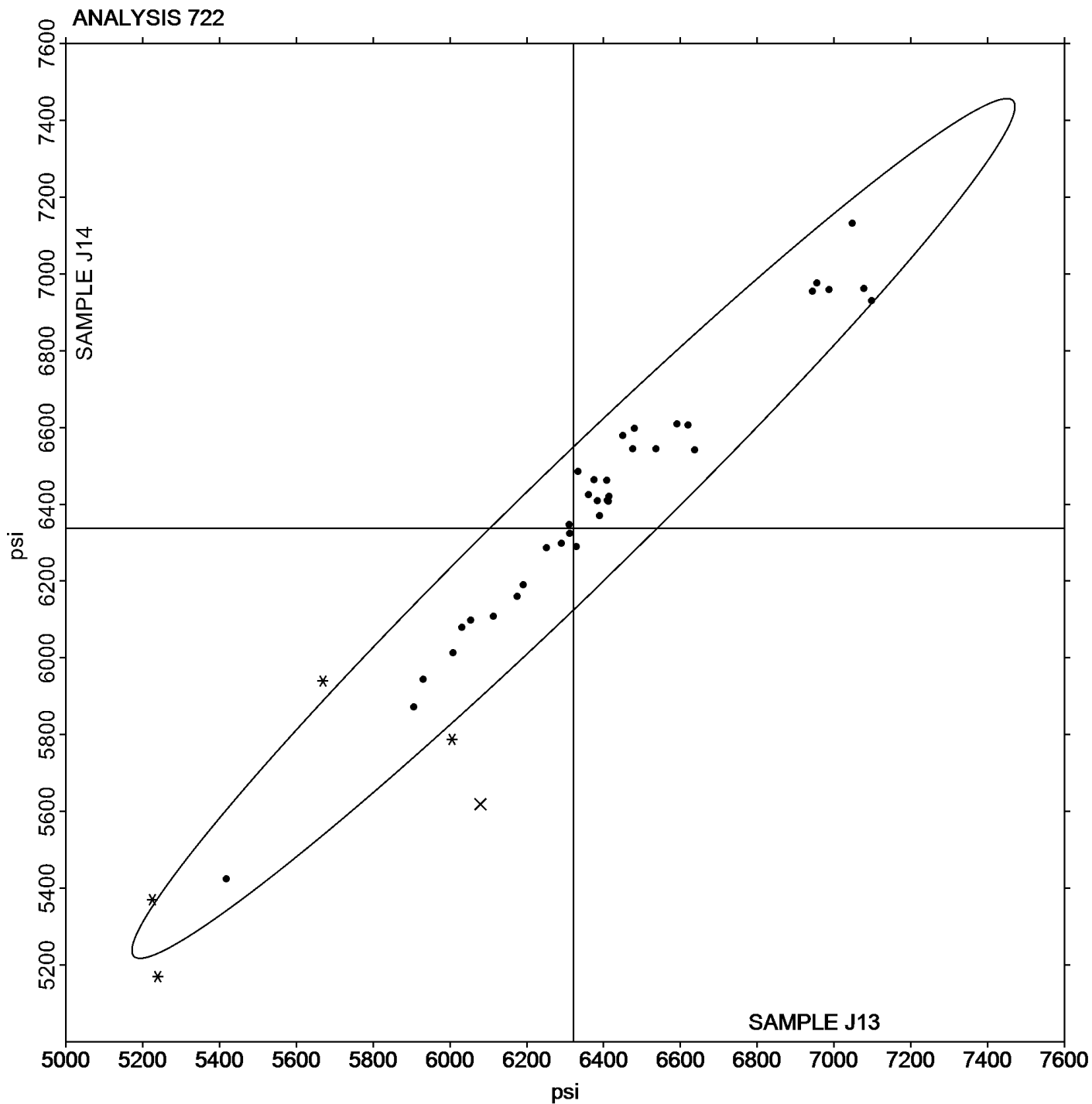
## Analysis 722

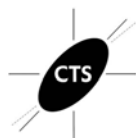
Flexural Stress at Yield - psi

Report #136

4th Qtr 2025

Grand Mean Sample J13: 6,321.46 psi    Grand Mean Sample J14: 6,337.00 psi





# Plastics Interlaboratory Testing Program

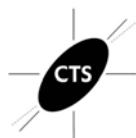
## Analysis 730

### Tensile Stress at Yield - MPa

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample C13 |                      |       | Sample C14 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| 2HJMJ4  |           | 26.01      | -0.48                | -0.82 | 25.97      | -0.50                | -0.90 |
| 2XVX9C  |           | 26.95      | 0.46                 | 0.78  | 27.01      | 0.54                 | 0.98  |
| 34J4JR  |           | 27.44      | 0.95                 | 1.61  | 26.96      | 0.49                 | 0.89  |
| 473EV3  |           | 25.87      | -0.63                | -1.07 | 25.92      | -0.55                | -0.99 |
| 4VJ3JP  |           | 26.94      | 0.45                 | 0.76  | 26.98      | 0.51                 | 0.93  |
| 4X7TGM  |           | 26.76      | 0.27                 | 0.46  | 26.76      | 0.29                 | 0.52  |
| 7BBKLT  |           | 27.36      | 0.87                 | 1.48  | 27.67      | 1.20                 | 2.17  |
| 7WQY2Y  |           | 25.91      | -0.58                | -0.99 | 26.15      | -0.32                | -0.59 |
| 7ZQBXY  |           | 25.96      | -0.53                | -0.91 | 26.19      | -0.28                | -0.51 |
| 887BUM  |           | 26.48      | -0.01                | -0.02 | 26.46      | -0.01                | -0.02 |
| 9LGC4J  |           | 26.52      | 0.03                 | 0.05  | 26.50      | 0.03                 | 0.06  |
| AEEMXY  |           | 26.84      | 0.35                 | 0.60  | 26.89      | 0.42                 | 0.76  |
| AHEV6U  |           | 26.84      | 0.34                 | 0.59  | 26.89      | 0.42                 | 0.76  |
| B9MYFX  |           | 26.96      | 0.46                 | 0.79  | 26.93      | 0.46                 | 0.83  |
| BF3HZX  | X         | 24.28      | -2.21                | -3.77 | 24.76      | -1.71                | -3.10 |
| CBQUZ2  |           | 26.33      | -0.16                | -0.27 | 26.21      | -0.26                | -0.48 |
| CK9KDC  |           | 26.77      | 0.28                 | 0.47  | 26.66      | 0.19                 | 0.35  |
| CKWUD9  |           | 26.60      | 0.11                 | 0.18  | 26.38      | -0.09                | -0.16 |
| DWGTGG  |           | 26.55      | 0.05                 | 0.09  | 26.44      | -0.03                | -0.05 |
| EJA3E9  |           | 26.20      | -0.30                | -0.50 | 26.04      | -0.43                | -0.77 |
| EM9HMW  |           | 26.62      | 0.13                 | 0.22  | 26.52      | 0.05                 | 0.10  |
| F7HZAL  |           | 26.64      | 0.15                 | 0.26  | 26.45      | -0.02                | -0.03 |
| FFNMJ8  |           | 26.74      | 0.25                 | 0.42  | 26.66      | 0.19                 | 0.35  |
| FNLD6G  |           | 27.78      | 1.29                 | 2.20  | 27.62      | 1.15                 | 2.08  |
| K7QBFF  |           | 25.70      | -0.79                | -1.35 | 25.76      | -0.71                | -1.28 |
| K98ZCX  |           | 25.89      | -0.60                | -1.02 | 26.06      | -0.41                | -0.74 |
| KCQRNZ  |           | 26.02      | -0.47                | -0.81 | 25.98      | -0.49                | -0.89 |
| LBEDX7  |           | 26.15      | -0.35                | -0.59 | 26.30      | -0.17                | -0.31 |
| LER6Y7  |           | 26.46      | -0.03                | -0.06 | 26.90      | 0.43                 | 0.78  |
| LHFPU3  | X         | 21.52      | -4.98                | -8.47 | 21.56      | -4.91                | -8.90 |
| LLDBJK  | X         | 30.08      | 3.58                 | 6.10  | 30.64      | 4.17                 | 7.55  |
| LM2TC6  |           | 26.41      | -0.09                | -0.15 | 26.38      | -0.09                | -0.16 |
| LTA3RE  |           | 26.84      | 0.35                 | 0.60  | 26.89      | 0.42                 | 0.76  |
| LX7UZX  | *         | 25.33      | -1.16                | -1.98 | 25.04      | -1.43                | -2.58 |
| M4PEGW  |           | 26.47      | -0.03                | -0.05 | 26.38      | -0.09                | -0.16 |



# Plastics Interlaboratory Testing Program

## Analysis 730

### Tensile Stress at Yield - MPa

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample C13 |                      |       | Sample C14 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| MGYT24  | *         | 26.09      | -0.40                | -0.69 | 25.53      | -0.94                | -1.71 |
| MYVKJV  |           | 26.60      | 0.10                 | 0.17  | 26.60      | 0.13                 | 0.24  |
| N3UY4Y  |           | 27.45      | 0.96                 | 1.63  | 27.25      | 0.78                 | 1.41  |
| PLJR79  |           | 26.56      | 0.06                 | 0.11  | 26.42      | -0.05                | -0.09 |
| QXUNNH  |           | 26.06      | -0.43                | -0.74 | 26.34      | -0.13                | -0.23 |
| TQMNFY  |           | 26.34      | -0.15                | -0.26 | 26.28      | -0.19                | -0.34 |
| TU7RDW  |           | 26.90      | 0.41                 | 0.69  | 26.85      | 0.38                 | 0.69  |
| U9JJE9  |           | 25.93      | -0.57                | -0.96 | 26.19      | -0.28                | -0.51 |
| UADAKM  | *         | 24.82      | -1.67                | -2.85 | 25.08      | -1.39                | -2.52 |
| UJVZXY  | X         | 24.23      | -2.27                | -3.86 | 23.78      | -2.69                | -4.87 |
| UL6WQH  |           | 27.22      | 0.73                 | 1.24  | 26.62      | 0.15                 | 0.27  |
| UUG66X  |           | 26.60      | 0.11                 | 0.19  | 26.87      | 0.40                 | 0.72  |
| XDLUYX  |           | 25.67      | -0.82                | -1.40 | 26.05      | -0.42                | -0.77 |
| XK4ZXQ  |           | 26.41      | -0.08                | -0.14 | 26.37      | -0.10                | -0.18 |
| Y679PU  |           | 27.40      | 0.90                 | 1.54  | 27.61      | 1.14                 | 2.07  |
| YBNTKT  |           | 25.98      | -0.51                | -0.87 | 25.93      | -0.54                | -0.97 |
| YQ2AE3  | *         | 27.32      | 0.83                 | 1.41  | 26.58      | 0.11                 | 0.20  |

#### Summary Statistics

##### Grand Means

##### Sample C13

26.494 MPa

##### Sample C14

26.469 MPa

##### Std Dev Btwn Labs

0.587 MPa

0.552 MPa

Statistics based on 48 of 52 reporting participants

Sample C13: HIPS & Sample C14: HIPS

#### Comments on Assigned Data Flags for Test #730

- BF3HZX (X) - Data for both samples are low. Possible Systematic Error. Inconsistent within the determinations of sample C14.
- LLDBJK (X) - Data for both samples are high. Possible Systematic Error.
- LHFPU3 (X) - Data for both samples are low. Inconsistent within the determinations of sample C14.
- UJVZXY (X) - Data for both samples are low. Possible Systematic Error.



# Plastics Interlaboratory Testing Program

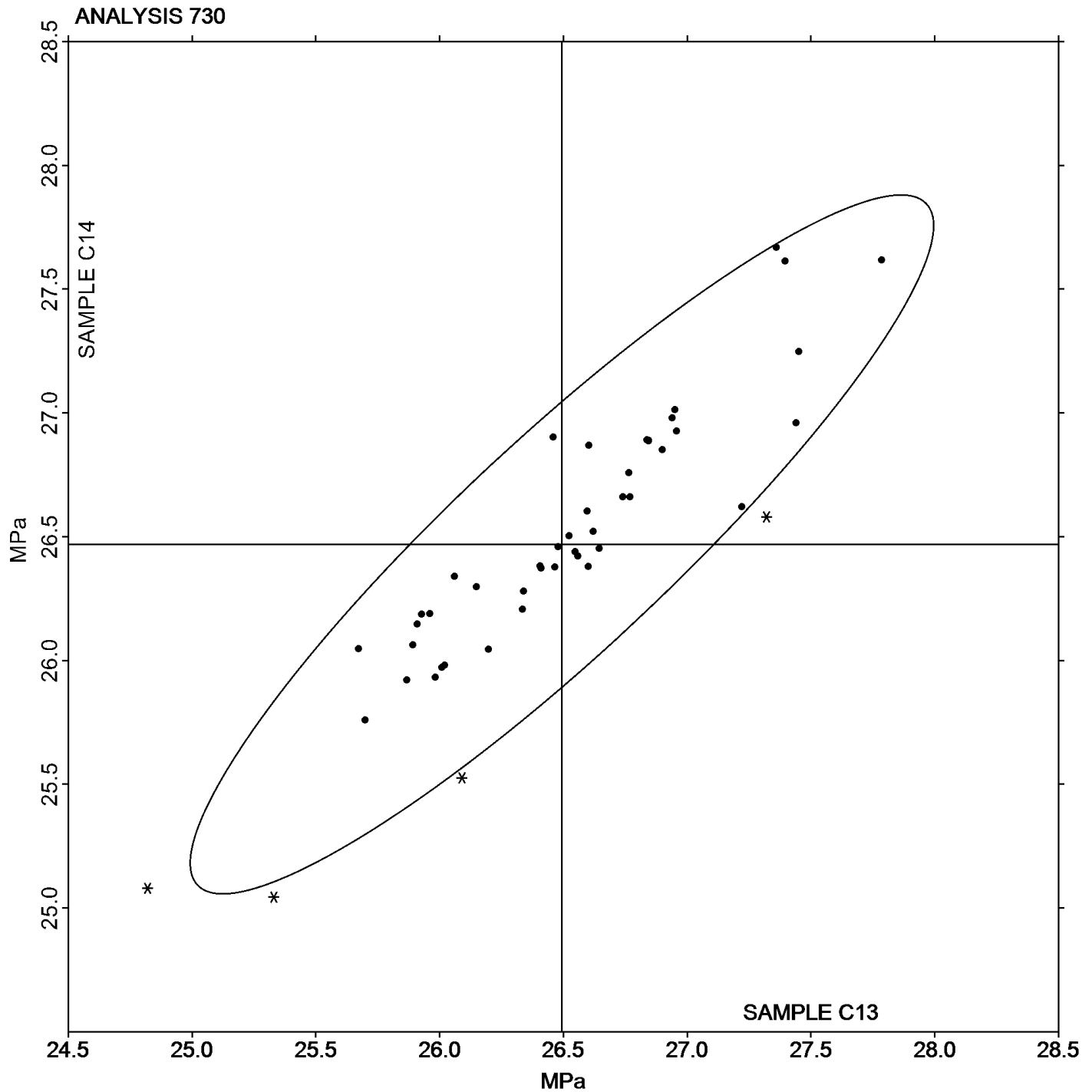
Analysis 730

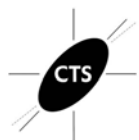
Tensile Stress at Yield - MPa

Report #136

4th Qtr 2025

Grand Mean Sample C13: 26.494 MPa    Grand Mean Sample C14: 26.469 MPa





# Plastics Interlaboratory Testing Program

## Analysis 731

### Tensile Stress at Break - MPa

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample C13 |                      |       | Sample C14 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| 2HJMJ4  |           | 20.82      | -0.77                | -1.49 | 20.68      | -0.88                | -1.63 |
| 2XVX9C  |           | 21.57      | -0.02                | -0.05 | 22.08      | 0.52                 | 0.96  |
| 34J4JR  |           | 21.50      | -0.09                | -0.18 | 20.78      | -0.78                | -1.45 |
| 473EV3  | X         | 19.10      | -2.49                | -4.79 | 20.13      | -1.43                | -2.66 |
| 4VJ3JP  |           | 21.66      | 0.07                 | 0.13  | 21.62      | 0.06                 | 0.10  |
| 4X7TGM  |           | 21.50      | -0.09                | -0.18 | 21.72      | 0.16                 | 0.29  |
| 7WQY2Y  | *         | 20.81      | -0.78                | -1.50 | 21.68      | 0.11                 | 0.21  |
| 7ZQBXY  |           | 20.60      | -1.00                | -1.92 | 20.76      | -0.80                | -1.48 |
| 887BUM  |           | 21.16      | -0.43                | -0.83 | 21.04      | -0.52                | -0.97 |
| 9LGC4J  |           | 20.98      | -0.61                | -1.17 | 20.88      | -0.68                | -1.26 |
| AEEMXY  |           | 21.61      | 0.01                 | 0.03  | 21.84      | 0.27                 | 0.51  |
| AHEV6U  |           | 22.75      | 1.16                 | 2.23  | 22.44      | 0.88                 | 1.62  |
| B9MYFX  |           | 21.70      | 0.10                 | 0.20  | 21.88      | 0.31                 | 0.58  |
| BF3HZX  |           | 20.93      | -0.66                | -1.27 | 21.05      | -0.51                | -0.94 |
| CBQUZ2  |           | 21.99      | 0.40                 | 0.76  | 22.23      | 0.66                 | 1.23  |
| CK9KDC  |           | 22.14      | 0.55                 | 1.05  | 22.24      | 0.67                 | 1.25  |
| CKWUD9  |           | 21.97      | 0.38                 | 0.73  | 21.17      | -0.39                | -0.72 |
| DWGTGG  |           | 21.72      | 0.13                 | 0.25  | 21.48      | -0.08                | -0.15 |
| EJA3E9  |           | 21.12      | -0.47                | -0.90 | 20.97      | -0.59                | -1.09 |
| EM9HMW  |           | 21.71      | 0.11                 | 0.22  | 21.72      | 0.16                 | 0.29  |
| F8BQEZ  |           | 22.84      | 1.25                 | 2.39  | 22.69      | 1.13                 | 2.09  |
| FFNMJ8  |           | 21.68      | 0.09                 | 0.18  | 21.34      | -0.22                | -0.41 |
| FNLD6G  |           | 22.00      | 0.40                 | 0.78  | 21.57      | 0.01                 | 0.02  |
| K7QBFF  |           | 21.70      | 0.11                 | 0.21  | 21.68      | 0.12                 | 0.22  |
| K98ZCX  |           | 21.27      | -0.32                | -0.62 | 20.83      | -0.73                | -1.36 |
| KCQRNZ  |           | 20.60      | -0.99                | -1.91 | 20.44      | -1.12                | -2.08 |
| LBEDX7  |           | 21.05      | -0.54                | -1.05 | 20.67      | -0.90                | -1.66 |
| LER6Y7  |           | 21.27      | -0.32                | -0.62 | 21.51      | -0.06                | -0.11 |
| LHFPU3  |           | 21.52      | -0.07                | -0.14 | 21.56      | 0.00                 | -0.01 |
| LLDBJK  | X         | 25.52      | 3.92                 | 7.54  | 25.71      | 4.15                 | 7.68  |
| LM2TC6  |           | 21.96      | 0.37                 | 0.70  | 21.84      | 0.27                 | 0.50  |
| LTA3RE  |           | 22.64      | 1.05                 | 2.01  | 22.65      | 1.08                 | 2.01  |
| M4PEGW  |           | 21.23      | -0.36                | -0.69 | 21.31      | -0.25                | -0.47 |
| MGYT24  |           | 21.63      | 0.04                 | 0.07  | 21.32      | -0.25                | -0.46 |
| MYVKJV  |           | 22.07      | 0.48                 | 0.92  | 21.74      | 0.18                 | 0.33  |



# Plastics Interlaboratory Testing Program

## Analysis 731

### Tensile Stress at Break - MPa

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample C13 |                      |       | Sample C14 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| N3UY4Y  |           | 21.99      | 0.40                 | 0.77  | 21.92      | 0.36                 | 0.66  |
| PLJR79  |           | 21.84      | 0.25                 | 0.48  | 21.74      | 0.17                 | 0.32  |
| QXUNNH  |           | 21.40      | -0.19                | -0.37 | 21.96      | 0.40                 | 0.73  |
| TQMNFY  |           | 21.22      | -0.37                | -0.72 | 21.64      | 0.08                 | 0.14  |
| TU7RDW  |           | 21.83      | 0.24                 | 0.46  | 21.49      | -0.08                | -0.14 |
| U9JJE9  |           | 21.86      | 0.26                 | 0.51  | 22.35      | 0.79                 | 1.46  |
| UL6WQH  |           | 21.18      | -0.41                | -0.79 | 21.40      | -0.16                | -0.30 |
| UUG66X  | X         | 26.62      | 5.03                 | 9.67  | 26.86      | 5.30                 | 9.81  |
| XK4ZXQ  |           | 21.16      | -0.43                | -0.82 | 21.33      | -0.24                | -0.44 |
| Y679PU  |           | 22.05      | 0.46                 | 0.88  | 22.13      | 0.57                 | 1.06  |
| YBNTKT  |           | 21.72      | 0.13                 | 0.24  | 21.91      | 0.35                 | 0.64  |
| YQ2AE3  |           | 22.14      | 0.55                 | 1.05  | 21.52      | -0.04                | -0.08 |

#### Summary Statistics

##### Grand Means

##### Sample C13

21.593 MPa

##### Sample C14

21.564 MPa

##### Std Dev Btwn Labs

0.520 MPa

0.540 MPa

Statistics based on 44 of 47 reporting participants

Sample C13: HIPS & Sample C14: HIPS

#### Comments on Assigned Data Flags for Test #731

LLDBJK (X) - Data for both samples are high. Possible Systematic Error.

473EV3 (X) - Data for sample C13 are low.

UUG66X (X) - Data for both samples are high.



# Plastics Interlaboratory Testing Program

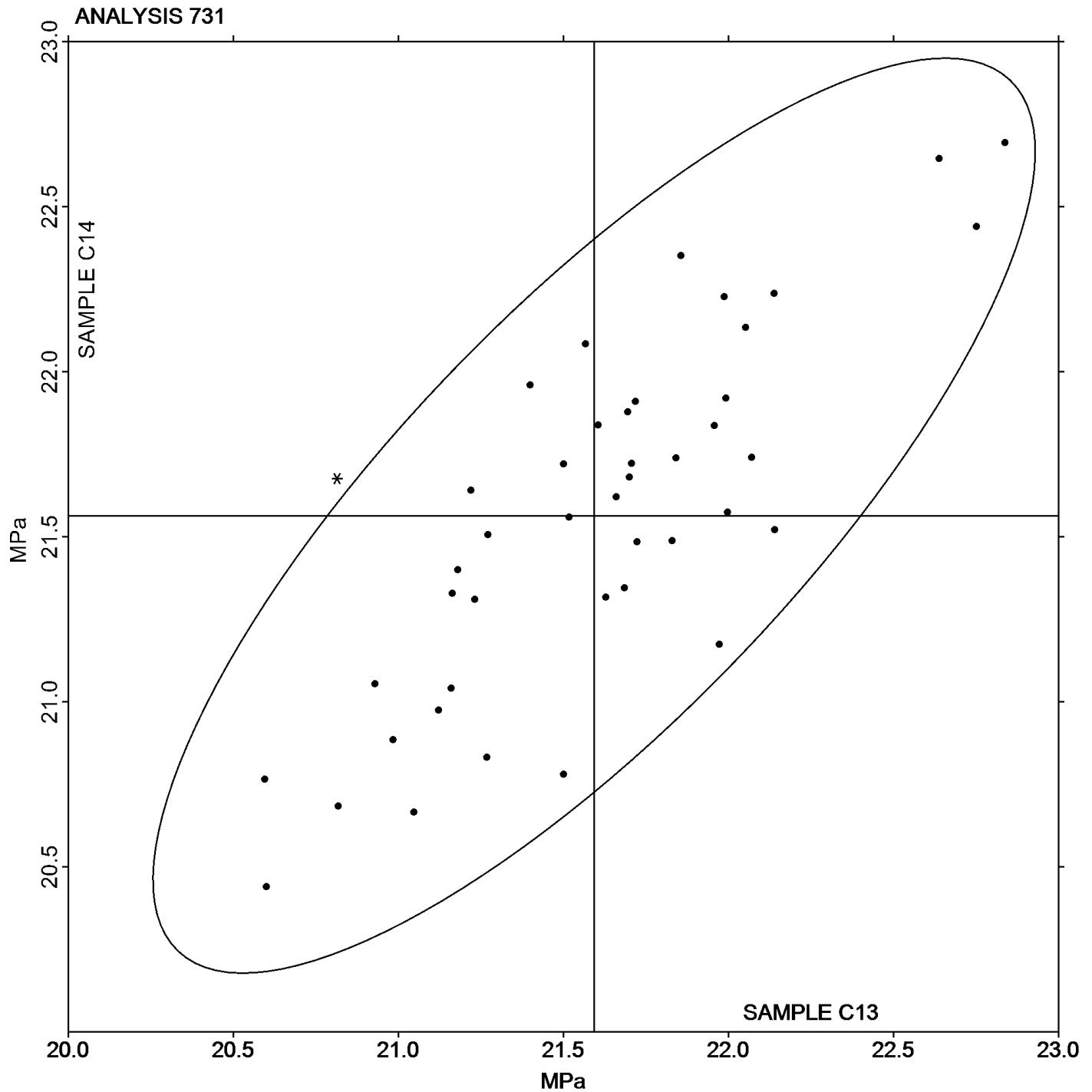
Analysis 731

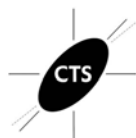
Tensile Stress at Break - MPa

Report #136

4th Qtr 2025

Grand Mean Sample C13: 21.593 MPa    Grand Mean Sample C14: 21.564 MPa





# Plastics Interlaboratory Testing Program

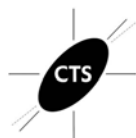
## Analysis 732

### Percent Strain at Yield

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample C13 |                      |       | Sample C14 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| 2HJMJ4  |           | 1.210      | -0.074               | -1.24 | 1.240      | -0.051               | -0.89 |
| 2XVX9C  |           | 1.308      | 0.024                | 0.41  | 1.318      | 0.027                | 0.47  |
| 34J4JR  |           | 1.360      | 0.076                | 1.29  | 1.376      | 0.085                | 1.48  |
| 473EV3  |           | 1.234      | -0.050               | -0.84 | 1.254      | -0.037               | -0.64 |
| 4VJ3JP  |           | 1.340      | 0.056                | 0.95  | 1.340      | 0.049                | 0.85  |
| 4X7TGM  |           | 1.300      | 0.016                | 0.28  | 1.294      | 0.003                | 0.05  |
| 7WQY2Y  |           | 1.236      | -0.048               | -0.80 | 1.236      | -0.055               | -0.96 |
| 7ZQBXY  |           | 1.418      | 0.134                | 2.27  | 1.387      | 0.096                | 1.66  |
| 887BUM  |           | 1.300      | 0.016                | 0.28  | 1.300      | 0.009                | 0.16  |
| 9LGC4J  |           | 1.308      | 0.024                | 0.41  | 1.306      | 0.015                | 0.26  |
| AEEMXY  |           | 1.270      | -0.014               | -0.23 | 1.284      | -0.007               | -0.12 |
| AHEV6U  |           | 1.228      | -0.056               | -0.94 | 1.230      | -0.061               | -1.06 |
| B9MYFX  |           | 1.313      | 0.030                | 0.50  | 1.319      | 0.028                | 0.49  |
| BF3HZX  | X         | 1.578      | 0.294                | 4.97  | 1.566      | 0.275                | 4.79  |
| CBQUZ2  |           | 1.308      | 0.024                | 0.41  | 1.290      | -0.001               | -0.02 |
| CK9KDC  |           | 1.240      | -0.044               | -0.74 | 1.300      | 0.009                | 0.16  |
| CKWUD9  |           | 1.378      | 0.095                | 1.60  | 1.378      | 0.087                | 1.52  |
| DWGTGG  |           | 1.310      | 0.026                | 0.45  | 1.306      | 0.015                | 0.26  |
| EJA3E9  |           | 1.274      | -0.010               | -0.16 | 1.286      | -0.005               | -0.09 |
| EM9HMW  |           | 1.278      | -0.006               | -0.09 | 1.284      | -0.007               | -0.12 |
| F7HZAL  |           | 1.298      | 0.014                | 0.24  | 1.290      | -0.001               | -0.02 |
| F8BQEZ  |           | 1.294      | 0.010                | 0.18  | 1.340      | 0.049                | 0.85  |
| FFNMJ8  | X         | 1.454      | 0.171                | 2.88  | 1.526      | 0.235                | 4.09  |
| FNLD6G  |           | 1.262      | -0.021               | -0.36 | 1.235      | -0.056               | -0.97 |
| K7QBFF  |           | 1.200      | -0.084               | -1.41 | 1.260      | -0.031               | -0.54 |
| K98ZCX  | *         | 1.183      | -0.100               | -1.69 | 1.140      | -0.151               | -2.63 |
| KCQRNZ  |           | 1.250      | -0.034               | -0.57 | 1.250      | -0.041               | -0.71 |
| LBEDX7  |           | 1.296      | 0.012                | 0.21  | 1.304      | 0.013                | 0.23  |
| LER6Y7  |           | 1.274      | -0.010               | -0.16 | 1.264      | -0.027               | -0.47 |
| LHFPU3  |           | 1.304      | 0.020                | 0.35  | 1.312      | 0.021                | 0.37  |
| LLDBJK  |           | 1.254      | -0.030               | -0.50 | 1.296      | 0.005                | 0.09  |
| LM2TC6  |           | 1.296      | 0.012                | 0.21  | 1.288      | -0.003               | -0.05 |
| M4PEGW  |           | 1.380      | 0.096                | 1.63  | 1.402      | 0.111                | 1.93  |
| MGYT24  |           | 1.258      | -0.026               | -0.43 | 1.240      | -0.051               | -0.89 |
| MYVKJV  |           | 1.282      | -0.002               | -0.03 | 1.278      | -0.013               | -0.23 |



# Plastics Interlaboratory Testing Program

## Analysis 732

### Percent Strain at Yield

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample C13 |                      |       | Sample C14 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| N3UY4Y  |           | 1.422      | 0.138                | 2.34  | 1.420      | 0.129                | 2.25  |
| PLJR79  |           | 1.290      | 0.006                | 0.11  | 1.346      | 0.055                | 0.96  |
| QXUNNH  |           | 1.200      | -0.084               | -1.41 | 1.260      | -0.031               | -0.54 |
| TQMNFY  |           | 1.200      | -0.084               | -1.41 | 1.200      | -0.091               | -1.58 |
| TU7RDW  |           | 1.278      | -0.006               | -0.09 | 1.262      | -0.029               | -0.50 |
| U9JJE9  |           | 1.144      | -0.140               | -2.36 | 1.182      | -0.109               | -1.90 |
| UL6WQH  |           | 1.280      | -0.004               | -0.06 | 1.260      | -0.031               | -0.54 |
| UUG66X  |           | 1.354      | 0.071                | 1.20  | 1.368      | 0.077                | 1.33  |
| XK4ZXQ  | X         | 1.653      | 0.369                | 6.24  | 1.671      | 0.380                | 6.61  |
| Y679PU  |           | 1.296      | 0.012                | 0.21  | 1.296      | 0.005                | 0.09  |
| YQ2AE3  | X         | 1.300      | 0.016                | 0.28  | 1.200      | -0.091               | -1.58 |

#### Summary Statistics

##### Grand Means

##### Sample C13

1.2836 Percent

##### Sample C14

1.2910 Percent

##### Std Dev Btwn Labs

0.0592 Percent

0.0575 Percent

Statistics based on 42 of 46 reporting participants

Sample C13: HIPS & Sample C14: HIPS

#### Comments on Assigned Data Flags for Test #732

BF3HZX (X) - Data for both samples are high. Possible Systematic Error.

YQ2AE3 (X) - Inconsistent in testing between samples.

XK4ZXQ (X) - Data for both samples are high. Possible Systematic Error. Inconsistent within the determinations of sample C14.

FFNMJ8 (X) - Data for both samples are high. Possible Systematic Error.

#### Results by Methodology (as reported by laboratory)

| Test Methodology                           | Sample C13<br>HIPS |              |              | Sample C14<br>HIPS |              |              | Labs Incl / Rpt |
|--------------------------------------------|--------------------|--------------|--------------|--------------------|--------------|--------------|-----------------|
|                                            | Group Mean         | Btwn Lab STD | Diff from GM | Group Mean         | Btwn Lab STD | Diff from GM |                 |
| contact extensometer to measure elongation | 1.2805             | 0.0564       | -0.003       | 1.2890             | 0.0561       | -0.002       | 34/37           |
| crosshead deflection/movement              | 1.3592             | 0.0271       | 0.076        | 1.3592             | 0.0271       | 0.068        | 2/3             |
| video extensometer                         | 1.2600             | 0.0681       | -0.024       | 1.2616             | 0.0526       | -0.029       | 5/5             |



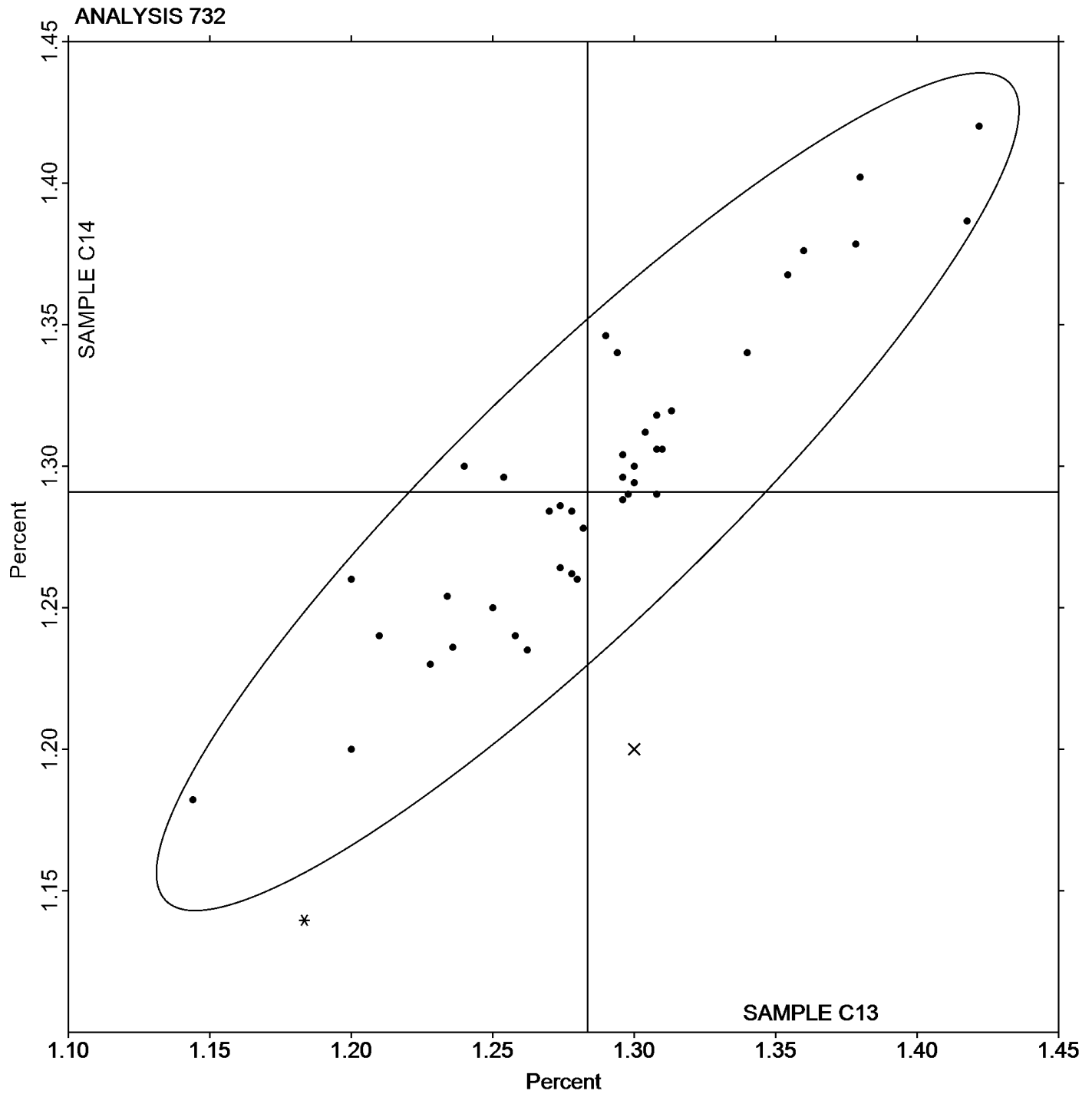
# Plastics Interlaboratory Testing Program

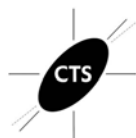
Analysis 732  
Percent Strain at Yield

Report #136

4th Qtr 2025

Grand Mean Sample C13: 1.2836 Percent    Grand Mean Sample C14: 1.2910 Percent





# Plastics Interlaboratory Testing Program

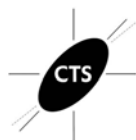
## Analysis 734

### Modulus of Elasticity - MPa

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample C13 |                      |       | Sample C14 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| 2HJMJ4  |           | 2,418      | 98                   | 1.44  | 2,368      | 55                   | 0.84  |
| 2XVX9C  |           | 2,263      | -57                  | -0.84 | 2,264      | -49                  | -0.75 |
| 34J4JR  | *         | 2,434      | 114                  | 1.67  | 2,326      | 13                   | 0.20  |
| 473EV3  |           | 2,317      | -3                   | -0.05 | 2,302      | -11                  | -0.16 |
| 4VJ3JP  |           | 2,316      | -4                   | -0.06 | 2,302      | -11                  | -0.16 |
| 4X7TGM  |           | 2,308      | -12                  | -0.18 | 2,303      | -10                  | -0.15 |
| 7BBKLT  | *         | 2,196      | -124                 | -1.82 | 2,276      | -37                  | -0.56 |
| 7WQY2Y  | X         | 2,191      | -129                 | -1.89 | 2,340      | 27                   | 0.42  |
| 7ZQBXY  |           | 2,209      | -111                 | -1.63 | 2,236      | -76                  | -1.16 |
| 887BUM  |           | 2,304      | -16                  | -0.23 | 2,288      | -25                  | -0.38 |
| 9LGC4J  |           | 2,229      | -91                  | -1.33 | 2,227      | -86                  | -1.31 |
| AEEMXY  |           | 2,290      | -29                  | -0.43 | 2,278      | -35                  | -0.53 |
| AHEV6U  |           | 2,391      | 71                   | 1.04  | 2,371      | 58                   | 0.89  |
| B9MYFX  |           | 2,269      | -51                  | -0.74 | 2,261      | -52                  | -0.79 |
| BF3HZX  |           | 2,302      | -18                  | -0.26 | 2,239      | -74                  | -1.13 |
| CBQUZ2  |           | 2,259      | -61                  | -0.90 | 2,277      | -36                  | -0.55 |
| CK9KDC  |           | 2,361      | 41                   | 0.60  | 2,311      | -1                   | -0.02 |
| CKWUD9  |           | 2,379      | 60                   | 0.87  | 2,406      | 93                   | 1.42  |
| DWGTGG  |           | 2,274      | -46                  | -0.68 | 2,269      | -43                  | -0.66 |
| EJA3E9  | *         | 2,365      | 46                   | 0.67  | 2,437      | 124                  | 1.90  |
| EM9HMW  |           | 2,255      | -65                  | -0.96 | 2,222      | -90                  | -1.38 |
| F7HZAL  | X         | 2,630      | 310                  | 4.55  | 2,627      | 315                  | 4.81  |
| FFNMJ8  |           | 2,372      | 52                   | 0.77  | 2,384      | 71                   | 1.09  |
| FNLD6G  | X         | 2,441      | 122                  | 1.78  | 2,137      | -176                 | -2.68 |
| K7QBFF  |           | 2,298      | -22                  | -0.32 | 2,308      | -5                   | -0.07 |
| K98ZCX  |           | 2,288      | -32                  | -0.47 | 2,314      | 1                    | 0.02  |
| KCQRNZ  |           | 2,246      | -74                  | -1.08 | 2,248      | -65                  | -0.99 |
| LBEDX7  |           | 2,230      | -90                  | -1.32 | 2,218      | -95                  | -1.45 |
| LER6Y7  |           | 2,340      | 21                   | 0.30  | 2,362      | 49                   | 0.76  |
| LHFPU3  |           | 2,283      | -37                  | -0.54 | 2,288      | -25                  | -0.38 |
| LLDBJK  |           | 2,376      | 56                   | 0.83  | 2,361      | 49                   | 0.74  |
| LM2TC6  |           | 2,335      | 15                   | 0.22  | 2,318      | 6                    | 0.09  |
| M4PEGW  | *         | 2,183      | -137                 | -2.01 | 2,143      | -170                 | -2.59 |
| MGYT24  |           | 2,349      | 29                   | 0.43  | 2,371      | 59                   | 0.90  |
| MYVKJV  |           | 2,342      | 22                   | 0.32  | 2,343      | 31                   | 0.47  |



# Plastics Interlaboratory Testing Program

## Analysis 734

### Modulus of Elasticity - MPa

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample C13 |                      |       | Sample C14 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| N3UY4Y  |           | 2,280      | -40                  | -0.58 | 2,262      | -51                  | -0.77 |
| PLJR79  |           | 2,366      | 46                   | 0.68  | 2,366      | 54                   | 0.82  |
| QXUNNH  | *         | 2,484      | 165                  | 2.42  | 2,404      | 92                   | 1.40  |
| TQMNFY  |           | 2,373      | 53                   | 0.78  | 2,370      | 57                   | 0.88  |
| TU7RDW  |           | 2,397      | 77                   | 1.14  | 2,385      | 72                   | 1.10  |
| U9JJE9  |           | 2,340      | 20                   | 0.30  | 2,380      | 67                   | 1.03  |
| UL6WQH  |           | 2,292      | -28                  | -0.41 | 2,248      | -65                  | -0.99 |
| UUG66X  |           | 2,423      | 103                  | 1.51  | 2,420      | 108                  | 1.65  |
| XK4ZXQ  | X         | 1,898      | -422                 | -6.20 | 1,840      | -473                 | -7.23 |
| Y679PU  |           | 2,376      | 56                   | 0.83  | 2,361      | 49                   | 0.74  |
| YQ2AE3  | X         | 2,369      | 49                   | 0.73  | 2,522      | 209                  | 3.20  |

#### Summary Statistics

##### Grand Means

##### Sample C13

2,319.8 MPa

##### Sample C14

2,312.6 MPa

##### Std Dev Btwn Labs

68.2 MPa

65.4 MPa

Statistics based on 41 of 46 reporting participants

Sample C13: HIPS & Sample C14: HIPS

#### Comments on Assigned Data Flags for Test #734

7WQY2Y (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample C13.

F7HZAL (X) - Data for both samples are high. Possible Systematic Error.

YQ2AE3 (X) - Data for sample C14 are high.

FNLD6G (X) - Inconsistent in testing between samples. Inconsistent within the determinations of both samples.

XK4ZXQ (X) - Data for both samples are low. Possible Systematic Error. Inconsistent within the determinations of both samples.



# Plastics Interlaboratory Testing Program

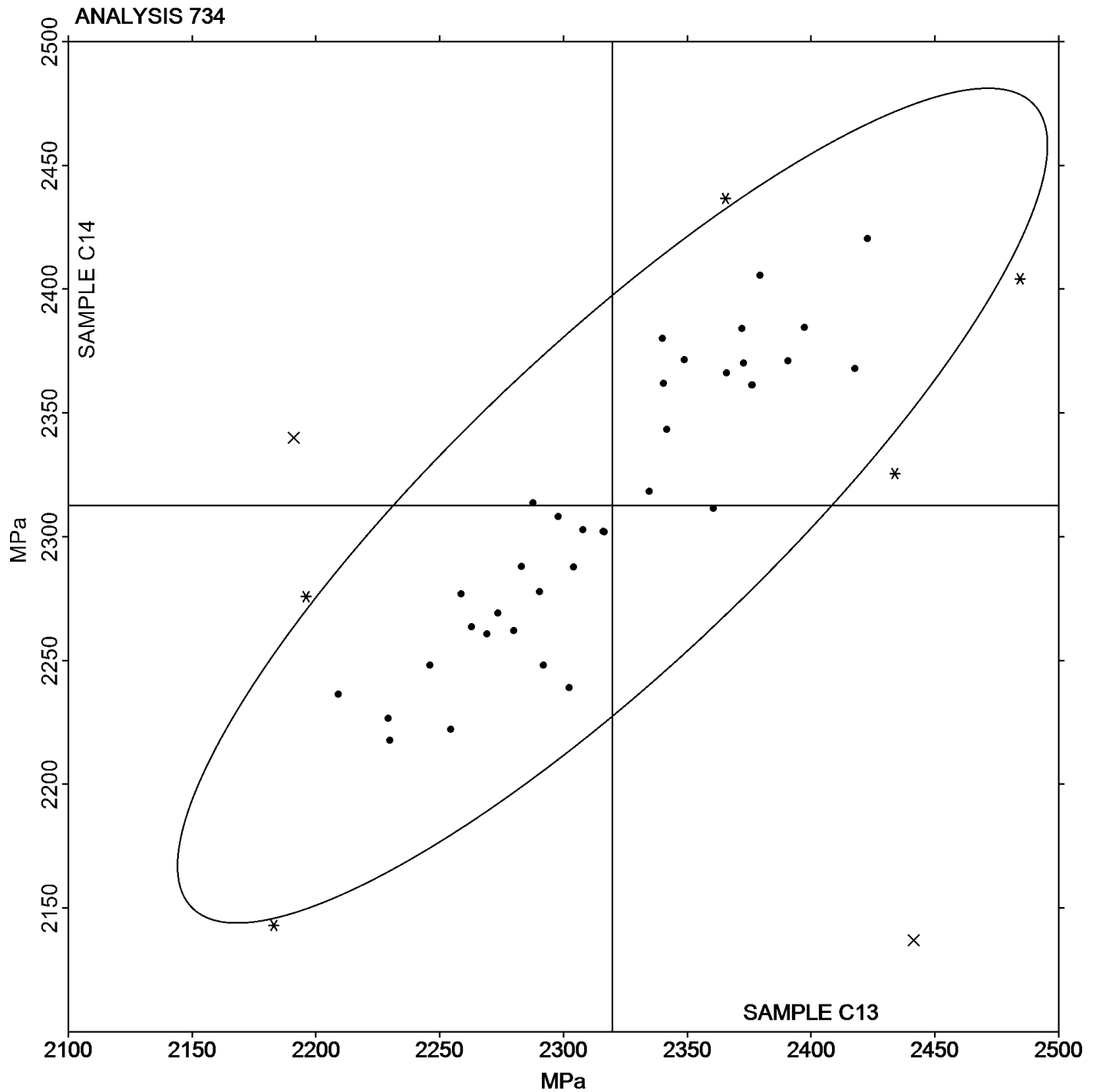
Analysis 734

Modulus of Elasticity - MPa

Report #136

4th Qtr 2025

Grand Mean Sample C13: 2,319.76 MPa    Grand Mean Sample C14: 2,312.57 MPa





# Plastics Interlaboratory Testing Program

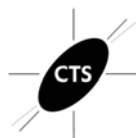
## Analysis 736

### Flexural Modulus - MPa

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample K13 |                      |       | Sample K14 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| 34J4JR  |           | 2,429      | 88                   | 0.82  | 2,406      | 70                   | 0.64  |
| 473EV3  | X         | 2,202      | -139                 | -1.29 | 2,273      | -63                  | -0.57 |
| 4VJ3JP  |           | 2,288      | -53                  | -0.49 | 2,286      | -50                  | -0.45 |
| 4X7TGM  |           | 2,387      | 46                   | 0.43  | 2,365      | 29                   | 0.26  |
| 7BBKLT  |           | 2,326      | -15                  | -0.14 | 2,306      | -29                  | -0.27 |
| 7WQY2Y  |           | 2,345      | 4                    | 0.04  | 2,308      | -28                  | -0.26 |
| 7ZQBX Y |           | 2,473      | 132                  | 1.23  | 2,468      | 133                  | 1.20  |
| 887BUM  |           | 2,303      | -38                  | -0.35 | 2,317      | -19                  | -0.17 |
| 8XD2KR  |           | 2,279      | -62                  | -0.58 | 2,273      | -63                  | -0.57 |
| 9LGC4J  |           | 2,143      | -198                 | -1.85 | 2,152      | -184                 | -1.67 |
| AEEMXY  |           | 2,614      | 273                  | 2.54  | 2,610      | 274                  | 2.49  |
| AHEV6U  | X         | 2,427      | 86                   | 0.80  | 2,347      | 11                   | 0.10  |
| B9MYFX  |           | 2,272      | -68                  | -0.64 | 2,273      | -63                  | -0.57 |
| CBQUZ2  |           | 2,275      | -66                  | -0.61 | 2,272      | -64                  | -0.58 |
| CK9KDC  |           | 2,464      | 123                  | 1.15  | 2,467      | 132                  | 1.20  |
| CKWUD9  |           | 2,371      | 30                   | 0.28  | 2,369      | 33                   | 0.30  |
| DJFXKA  |           | 2,332      | -9                   | -0.08 | 2,316      | -20                  | -0.18 |
| DWGTGG  |           | 2,284      | -57                  | -0.53 | 2,288      | -48                  | -0.43 |
| EJA3E9  |           | 2,385      | 44                   | 0.41  | 2,403      | 68                   | 0.61  |
| EM9HMW  |           | 2,436      | 95                   | 0.88  | 2,426      | 90                   | 0.82  |
| F7HZAL  |           | 2,384      | 43                   | 0.40  | 2,391      | 55                   | 0.50  |
| FFNMJ8  |           | 2,216      | -125                 | -1.16 | 2,201      | -135                 | -1.22 |
| FNLD6G  |           | 2,283      | -58                  | -0.54 | 2,288      | -48                  | -0.43 |
| JFCEMF  |           | 2,216      | -125                 | -1.17 | 2,203      | -133                 | -1.20 |
| K7QBFF  |           | 2,304      | -37                  | -0.35 | 2,308      | -27                  | -0.25 |
| KCQRNZ  |           | 2,354      | 13                   | 0.12  | 2,344      | 8                    | 0.08  |
| KUDBJM  |           | 2,252      | -89                  | -0.83 | 2,252      | -84                  | -0.76 |
| LER6Y7  |           | 2,362      | 21                   | 0.20  | 2,339      | 4                    | 0.03  |
| LHFPU3  |           | 2,450      | 109                  | 1.02  | 2,453      | 117                  | 1.07  |
| LLDBJK  |           | 2,155      | -186                 | -1.73 | 2,158      | -177                 | -1.61 |
| LM2TC6  |           | 2,314      | -27                  | -0.25 | 2,338      | 3                    | 0.02  |
| LX7UZH  |           | 2,425      | 84                   | 0.78  | 2,444      | 108                  | 0.98  |
| MGYT24  |           | 2,240      | -101                 | -0.94 | 2,218      | -118                 | -1.07 |
| MYVKJV  |           | 2,394      | 53                   | 0.50  | 2,413      | 78                   | 0.71  |
| N3UY4Y  |           | 2,264      | -77                  | -0.72 | 2,248      | -88                  | -0.80 |



# Plastics Interlaboratory Testing Program

## Analysis 736

### Flexural Modulus - MPa

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample K13 |                      |        | Sample K14 |                      |        |
|---------|-----------|------------|----------------------|--------|------------|----------------------|--------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV    | Lab Mean   | Diff from Grand Mean | CPV    |
| PTL437  | X         | 2,758      | 417                  | 3.88   | 2,724      | 388                  | 3.53   |
| QXUNNH  | *         | 2,110      | -231                 | -2.14  | 2,073      | -263                 | -2.39  |
| TQMNFY  |           | 2,517      | 176                  | 1.63   | 2,523      | 187                  | 1.70   |
| TU7RDW  |           | 2,437      | 96                   | 0.89   | 2,435      | 99                   | 0.90   |
| U9JJE9  |           | 2,281      | -60                  | -0.56  | 2,268      | -68                  | -0.61  |
| UADAKM  | X         | 1,031      | -1,310               | -12.19 | 1,038      | -1,297               | -11.78 |
| UL6WQH  |           | 2,258      | -83                  | -0.77  | 2,248      | -88                  | -0.80  |
| UUG66X  |           | 2,442      | 101                  | 0.94   | 2,438      | 103                  | 0.93   |
| XDLUYX  | X         | 2,192      | -149                 | -1.39  | 2,248      | -88                  | -0.80  |
| XK4ZXQ  |           | 2,374      | 33                   | 0.31   | 2,364      | 28                   | 0.26   |
| Y679PU  |           | 2,537      | 196                  | 1.83   | 2,513      | 177                  | 1.61   |

#### Summary Statistics

##### Grand Means

Sample K13  
2,340.9 MPa

Sample K14  
2,335.7 MPa

##### Stnd Dev Btwn Labs

107.5 MPa

110.1 MPa

Statistics based on 41 of 46 reporting participants

Sample K13: HIPS & Sample K14: HIPS

#### Comments on Assigned Data Flags for Test #736

UADAKM (X) - Data for both samples are low.

473EV3 (X) - Inconsistent in testing between samples.

AHEV6U (X) - Inconsistent in testing between samples.

PTL437 (X) - Data for both samples are high. Possible Systematic Error. Inconsistent within the determinations of sample K13.

XDLUYX (X) - Inconsistent in testing between samples.



# Plastics Interlaboratory Testing Program

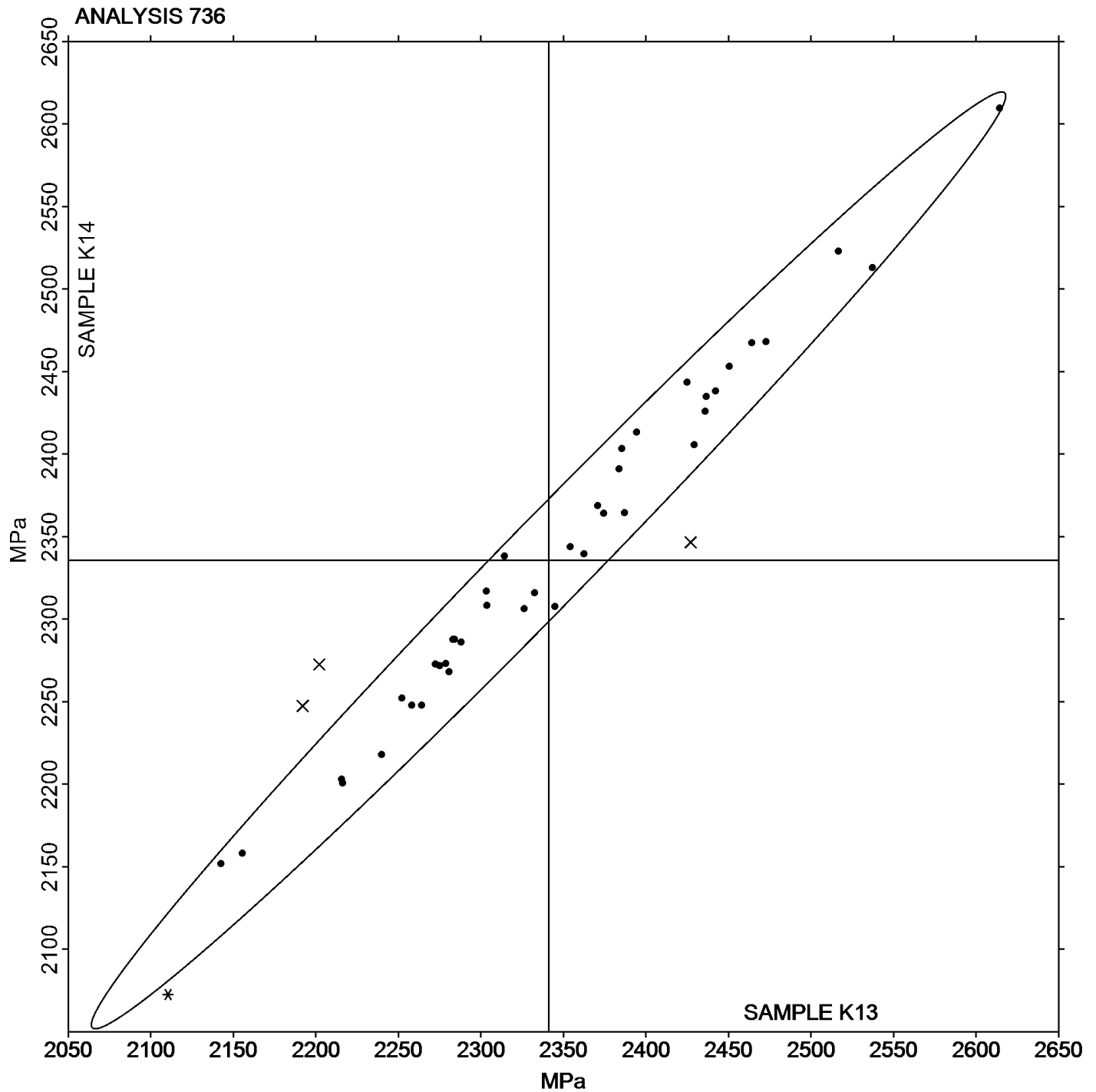
Analysis 736

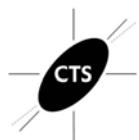
Flexural Modulus - MPa

Report #136

4th Qtr 2025

Grand Mean Sample K13: 2,340.91 MPa    Grand Mean Sample K14: 2,335.69 MPa





# Plastics Interlaboratory Testing Program

## Analysis 737

Report #136

4th Qtr 2025

### Flexural Stress at 3.5% Strain - MPa

| WebCode | Data Flag | Sample K13 |                      |       | Sample K14 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| 34J4JR  |           | 41.86      | 0.06                 | 0.04  | 41.68      | -0.06                | -0.04 |
| 473EV3  | X         | 39.73      | -2.07                | -1.55 | 36.62      | -5.12                | -3.55 |
| 4VJ3JP  |           | 42.18      | 0.38                 | 0.28  | 42.21      | 0.46                 | 0.32  |
| 4X7TGM  |           | 39.32      | -2.48                | -1.86 | 38.98      | -2.76                | -1.91 |
| 7WQY2Y  |           | 41.51      | -0.29                | -0.22 | 41.20      | -0.55                | -0.38 |
| 7ZQBXY  |           | 40.54      | -1.26                | -0.95 | 39.99      | -1.75                | -1.21 |
| 887BUM  |           | 40.80      | -1.00                | -0.75 | 40.74      | -1.00                | -0.69 |
| 8XD2KR  |           | 41.70      | -0.10                | -0.08 | 41.66      | -0.09                | -0.06 |
| 9LGC4J  |           | 40.63      | -1.17                | -0.88 | 40.48      | -1.26                | -0.87 |
| AEEMXY  | X         | 33.91      | -7.89                | -5.92 | 35.11      | -6.63                | -4.60 |
| AHEV6U  |           | 41.98      | 0.18                 | 0.13  | 41.94      | 0.20                 | 0.14  |
| B9MYFX  |           | 40.76      | -1.04                | -0.78 | 40.53      | -1.21                | -0.84 |
| CBQUZ2  |           | 41.76      | -0.04                | -0.03 | 41.73      | -0.01                | -0.01 |
| CKWUD9  |           | 41.96      | 0.16                 | 0.12  | 41.93      | 0.19                 | 0.13  |
| DJFXKA  |           | 41.76      | -0.04                | -0.03 | 41.64      | -0.10                | -0.07 |
| DWGTGG  |           | 41.49      | -0.31                | -0.23 | 41.50      | -0.24                | -0.17 |
| EJA3E9  |           | 41.62      | -0.18                | -0.14 | 41.52      | -0.22                | -0.15 |
| EM9HMW  |           | 42.26      | 0.46                 | 0.35  | 42.54      | 0.80                 | 0.56  |
| FFNMJ8  |           | 39.59      | -2.21                | -1.66 | 39.53      | -2.21                | -1.53 |
| FNLD6G  |           | 42.75      | 0.95                 | 0.71  | 43.11      | 1.37                 | 0.95  |
| K7QBFF  |           | 42.41      | 0.61                 | 0.45  | 42.38      | 0.64                 | 0.44  |
| KCQRNZ  |           | 42.98      | 1.18                 | 0.89  | 42.86      | 1.12                 | 0.78  |
| KUDBJM  |           | 41.06      | -0.74                | -0.56 | 41.00      | -0.74                | -0.51 |
| LER6Y7  |           | 40.41      | -1.39                | -1.04 | 40.12      | -1.62                | -1.12 |
| LHFPU3  |           | 42.37      | 0.57                 | 0.43  | 42.32      | 0.58                 | 0.40  |
| LLDBJK  |           | 41.01      | -0.79                | -0.60 | 41.05      | -0.70                | -0.48 |
| LM2TC6  | *         | 41.42      | -0.38                | -0.29 | 41.87      | 0.13                 | 0.09  |
| MGYT24  |           | 40.30      | -1.50                | -1.13 | 40.30      | -1.44                | -1.00 |
| MYVKJV  |           | 43.12      | 1.32                 | 0.99  | 43.05      | 1.30                 | 0.91  |
| N3UY4Y  |           | 41.84      | 0.04                 | 0.03  | 42.00      | 0.26                 | 0.18  |
| PTL437  | *         | 45.39      | 3.59                 | 2.69  | 45.71      | 3.96                 | 2.75  |
| QXUNNH  |           | 40.36      | -1.44                | -1.08 | 40.08      | -1.66                | -1.15 |
| TQMNFY  |           | 44.78      | 2.98                 | 2.24  | 45.06      | 3.32                 | 2.30  |
| TU7RDW  |           | 42.45      | 0.65                 | 0.49  | 42.30      | 0.56                 | 0.39  |
| U9JJE9  |           | 40.74      | -1.06                | -0.79 | 40.53      | -1.22                | -0.84 |



# Plastics Interlaboratory Testing Program

## Analysis 737

Report #136

4th Qtr 2025

### Flexural Stress at 3.5% Strain - MPa

| WebCode | Data Flag | Sample K13 |                      |       | Sample K14 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| UL6WQH  |           | 42.76      | 0.96                 | 0.72  | 42.42      | 0.68                 | 0.47  |
| UUG66X  | X         | 38.32      | -3.48                | -2.61 | 38.60      | -3.14                | -2.18 |
| XK4ZXQ  |           | 42.19      | 0.39                 | 0.29  | 42.08      | 0.34                 | 0.24  |
| Y679PU  |           | 44.75      | 2.95                 | 2.21  | 44.65      | 2.91                 | 2.02  |

#### Summary Statistics

|                           | Sample K13 | Sample K14 |
|---------------------------|------------|------------|
| <b>Grand Means</b>        | 41.800 MPa | 41.741 MPa |
| <b>Stnd Dev Btwn Labs</b> | 1.332 MPa  | 1.441 MPa  |

Statistics based on 36 of 39 reporting participants

Sample K13: HIPS & Sample K14: HIPS

#### Comments on Assigned Data Flags for Test #737

- AEEMXY (X) - Data for both samples are low. Possible Systematic Error. Inconsistent within the determinations of both samples.
- 473EV3 (X) - Data for sample K14 are low. Inconsistent within the determinations of both samples.
- UUG66X (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample K13.



# Plastics Interlaboratory Testing Program

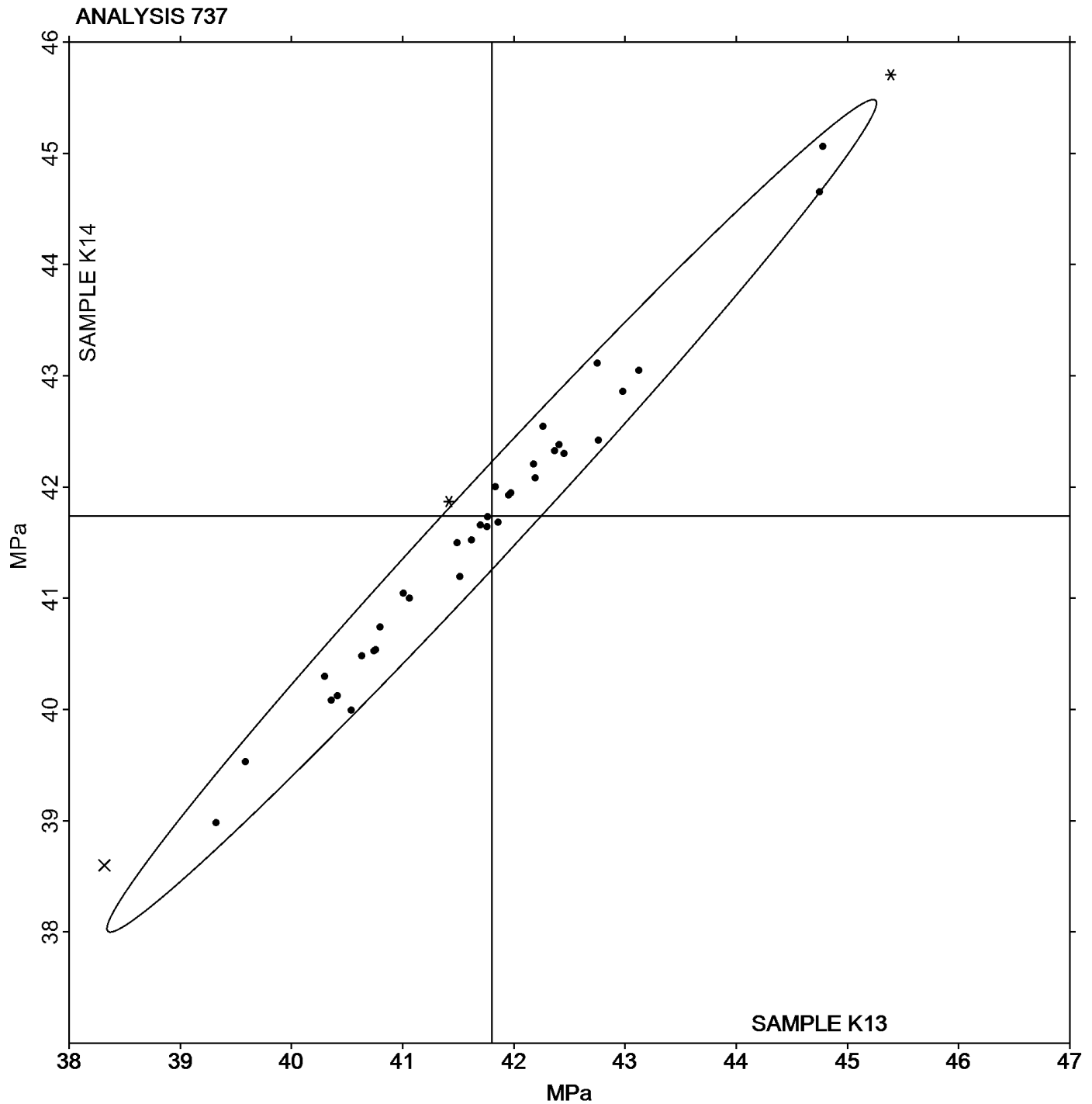
## Analysis 737

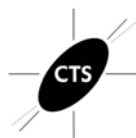
Flexural Stress at 3.5% Strain - MPa

Report #136

4th Qtr 2025

Grand Mean Sample K13: 41.800 MPa    Grand Mean Sample K14: 41.741 MPa





# Plastics Interlaboratory Testing Program

## Analysis 738

### Flexural Stress at Yield - MPa

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample K13 |                      |        | Sample K14 |                      |        |
|---------|-----------|------------|----------------------|--------|------------|----------------------|--------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV    | Lab Mean   | Diff from Grand Mean | CPV    |
| 34J4JR  |           | 42.26      | -0.37                | -0.26  | 41.92      | -0.71                | -0.47  |
| 473EV3  | X         | 40.03      | -2.60                | -1.82  | 36.91      | -5.72                | -3.79  |
| 4VJ3JP  |           | 43.63      | 1.00                 | 0.71   | 43.67      | 1.04                 | 0.69   |
| 4X7TGM  |           | 39.74      | -2.89                | -2.03  | 39.45      | -3.18                | -2.11  |
| 7BBKLT  |           | 42.77      | 0.14                 | 0.10   | 42.88      | 0.25                 | 0.17   |
| 7WQY2Y  |           | 41.64      | -0.99                | -0.70  | 41.41      | -1.22                | -0.81  |
| 887BUM  |           | 41.48      | -1.15                | -0.81  | 41.56      | -1.07                | -0.71  |
| 8XD2KR  |           | 43.22      | 0.59                 | 0.41   | 43.48      | 0.85                 | 0.56   |
| 9LGC4J  |           | 41.22      | -1.41                | -0.99  | 41.06      | -1.57                | -1.04  |
| AEEMXY  | X         | 34.25      | -8.38                | -5.89  | 35.35      | -7.28                | -4.83  |
| AHEV6U  |           | 42.72      | 0.09                 | 0.06   | 42.76      | 0.13                 | 0.09   |
| B9MYFX  |           | 41.58      | -1.05                | -0.74  | 41.33      | -1.30                | -0.86  |
| CBQUZ2  |           | 42.18      | -0.45                | -0.31  | 42.30      | -0.33                | -0.22  |
| CK9KDC  | *         | 46.72      | 4.09                 | 2.87   | 46.74      | 4.11                 | 2.73   |
| CKWUD9  |           | 42.30      | -0.33                | -0.23  | 42.36      | -0.27                | -0.18  |
| DJFXKA  |           | 42.46      | -0.17                | -0.12  | 42.70      | 0.07                 | 0.05   |
| DWGTGG  |           | 41.89      | -0.74                | -0.52  | 41.89      | -0.74                | -0.49  |
| EJA3E9  |           | 41.89      | -0.74                | -0.52  | 41.87      | -0.76                | -0.50  |
| EM9HMW  |           | 42.57      | -0.06                | -0.04  | 42.91      | 0.28                 | 0.19   |
| F7HZAL  |           | 43.72      | 1.09                 | 0.76   | 43.60      | 0.97                 | 0.64   |
| K7QBFF  |           | 43.22      | 0.59                 | 0.41   | 43.63      | 1.00                 | 0.66   |
| KCQRNZ  |           | 43.62      | 0.99                 | 0.70   | 43.46      | 0.83                 | 0.55   |
| KUDBJM  |           | 42.00      | -0.63                | -0.44  | 42.00      | -0.63                | -0.42  |
| LER6Y7  |           | 41.01      | -1.62                | -1.14  | 40.77      | -1.86                | -1.23  |
| LHFPU3  |           | 43.72      | 1.09                 | 0.77   | 43.75      | 1.12                 | 0.74   |
| LLDBJK  | X         | 5.85       | -36.78               | -25.84 | 5.62       | -37.01               | -24.53 |
| LM2TC6  |           | 41.75      | -0.88                | -0.62  | 42.13      | -0.50                | -0.33  |
| LX7UZZ  |           | 44.08      | 1.45                 | 1.02   | 44.04      | 1.41                 | 0.94   |
| MYVKJV  |           | 44.70      | 2.07                 | 1.46   | 44.52      | 1.89                 | 1.25   |
| N3UY4Y  |           | 42.54      | -0.09                | -0.07  | 42.84      | 0.21                 | 0.14   |
| PTL437  |           | 45.93      | 3.30                 | 2.32   | 46.32      | 3.69                 | 2.44   |
| QXUNNH  |           | 40.84      | -1.79                | -1.26  | 40.62      | -2.01                | -1.33  |
| U9JJE9  |           | 41.46      | -1.17                | -0.82  | 41.34      | -1.29                | -0.86  |
| UL6WQH  |           | 42.76      | 0.13                 | 0.09   | 42.42      | -0.21                | -0.14  |
| XK4ZXQ  |           | 42.55      | -0.08                | -0.06  | 42.44      | -0.19                | -0.13  |



# Plastics Interlaboratory Testing Program

## Analysis 738

### Flexural Stress at Yield - MPa

Report #136

4th Qtr 2025

#### Summary Statistics

|                                                     | <u>Sample K13</u> | <u>Sample K14</u> |
|-----------------------------------------------------|-------------------|-------------------|
| <b>Grand Means</b>                                  | 42.631 MPa        | 42.631 MPa        |
| <b>Stnd Dev Btwn Labs</b>                           | 1.423 MPa         | 1.509 MPa         |
| Statistics based on 32 of 35 reporting participants |                   |                   |

Sample K13: HIPS & Sample K14: HIPS

#### Comments on Assigned Data Flags for Test #738

- AEEMXY (X) - Data for both samples are low. Possible Systematic Error. Inconsistent within the determinations of both samples.
- LLDBJK (X) - Extreme data.
- 473EV3 (X) - Data for sample K14 are low. Inconsistent within the determinations of both samples.



# Plastics Interlaboratory Testing Program

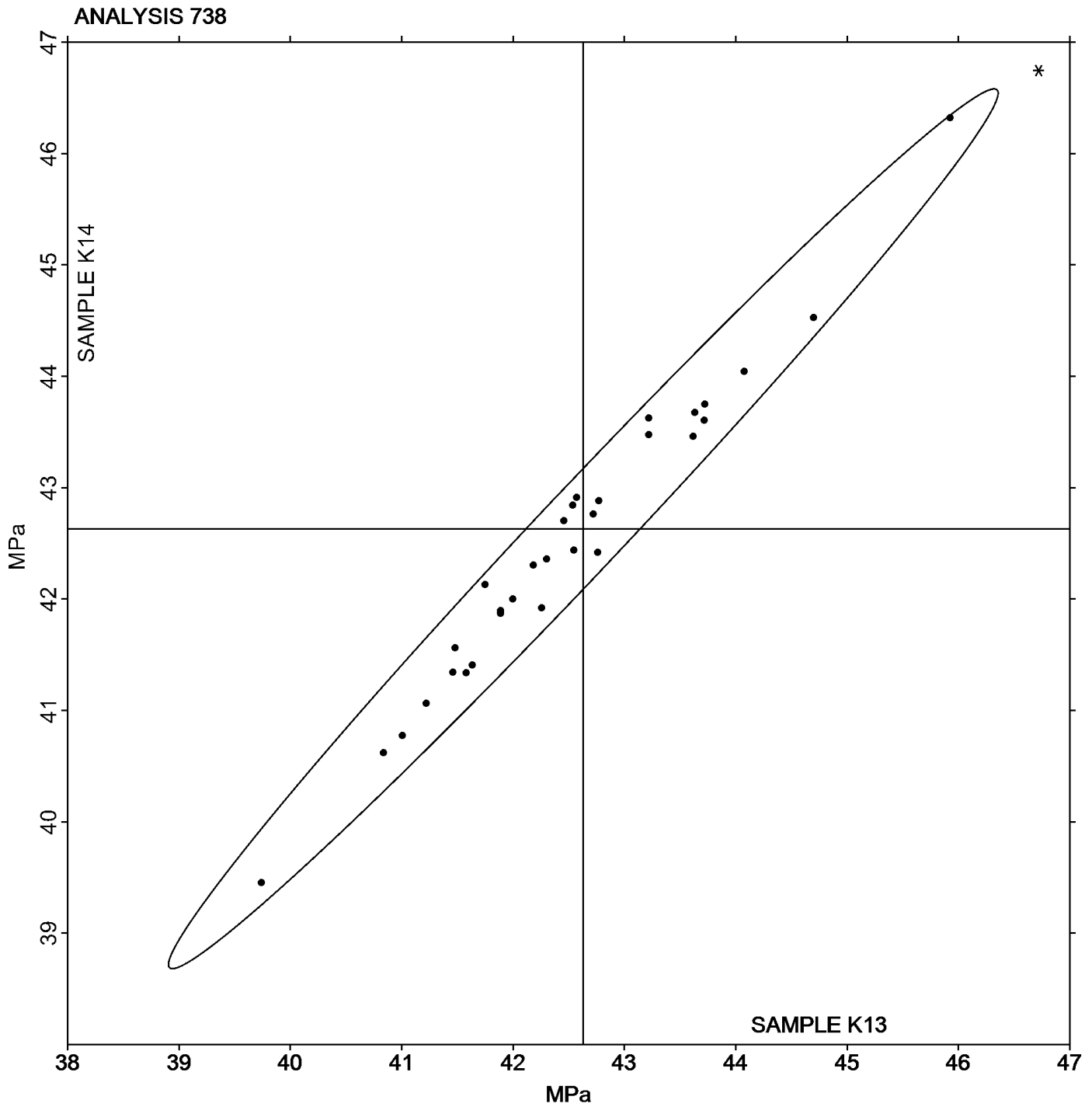
Analysis 738

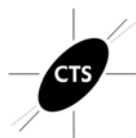
Flexural Stress at Yield - MPa

Report #136

4th Qtr 2025

Grand Mean Sample K13: 42.631 MPa    Grand Mean Sample K14: 42.631 MPa





# Plastics Interlaboratory Testing Program

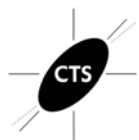
## Analysis 750

Report #136

4th Qtr 2025

### Flow Rates of Thermoplastics (190 or 230C/2.16 kg) - g/10 mins

| WebCode | Data Flag | Sample X13 |                      |       | Sample X14                       |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|----------------------------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean                         | Diff from Grand Mean | CPV   |            |
| 29WLZ9  | M         | 13.88      | 1.51                 | 2.33  | No data reported for this sample |                      |       | WZ         |
| 2HJMJ4  |           | 12.65      | 0.28                 | 0.43  | 12.50                            | 0.11                 | 0.17  | TO         |
| 34J4JR  | X         | 12.95      | 0.57                 | 0.89  | 11.82                            | -0.58                | -0.93 | TO         |
| 36QHGX  |           | 12.47      | 0.10                 | 0.15  | 12.58                            | 0.18                 | 0.29  | GO         |
| 3FCNKF  |           | 13.50      | 1.13                 | 1.74  | 13.56                            | 1.16                 | 1.87  | CS         |
| 3VLBBX  |           | 12.71      | 0.34                 | 0.52  | 12.68                            | 0.28                 | 0.45  | TO         |
| 3WF2GC  |           | 12.22      | -0.16                | -0.24 | 12.36                            | -0.04                | -0.06 | WZ         |
| 469NPM  | X         | 12.25      | -0.12                | -0.19 | 13.34                            | 0.95                 | 1.52  | KA         |
| 473EV3  |           | 12.70      | 0.33                 | 0.50  | 12.75                            | 0.36                 | 0.57  | TO         |
| 4UBTP8  |           | 13.43      | 1.06                 | 1.63  | 13.39                            | 1.00                 | 1.60  | WZ         |
| 4VJ3JP  |           | 11.90      | -0.47                | -0.73 | 11.97                            | -0.42                | -0.68 | GO         |
| 6WANPL  | *         | 13.68      | 1.30                 | 2.01  | 13.00                            | 0.61                 | 0.98  | TO         |
| 73TBXW  |           | 12.87      | 0.50                 | 0.77  | 12.86                            | 0.46                 | 0.74  | DY         |
| 74L24B  |           | 13.38      | 1.01                 | 1.55  | 12.86                            | 0.47                 | 0.75  | TO         |
| 7NYL6K  |           | 11.59      | -0.79                | -1.22 | 11.45                            | -0.94                | -1.51 | TO         |
| 7W7HLW  | X         | 12.52      | 0.15                 | 0.23  | 15.36                            | 2.96                 | 4.76  | TO         |
| 7ZQBXV  |           | 13.52      | 1.15                 | 1.77  | 13.23                            | 0.84                 | 1.34  | DY         |
| 887BUM  |           | 12.37      | 0.00                 | -0.01 | 12.25                            | -0.14                | -0.23 | GO         |
| 8QUULZ  |           | 12.65      | 0.28                 | 0.43  | 13.07                            | 0.67                 | 1.08  | GO         |
| 8QWMHM  |           | 12.65      | 0.28                 | 0.43  | 12.35                            | -0.04                | -0.07 | GO         |
| 9LGC4J  |           | 12.18      | -0.19                | -0.29 | 12.06                            | -0.33                | -0.53 | TY         |
| AHEV6U  |           | 12.55      | 0.18                 | 0.27  | 12.55                            | 0.16                 | 0.25  | WZ         |
| B9MYFX  |           | 11.99      | -0.39                | -0.60 | 11.99                            | -0.40                | -0.65 | DY         |
| BT8WYA  |           | 13.95      | 1.58                 | 2.43  | 13.84                            | 1.44                 | 2.32  | TO         |
| BTTAMM  |           | 13.00      | 0.63                 | 0.97  | 12.95                            | 0.56                 | 0.89  | TO         |
| CBM8K9  | X         | 16.81      | 4.43                 | 6.84  | 16.82                            | 4.43                 | 7.11  | TO         |
| CBQUZ2  |           | 12.90      | 0.53                 | 0.81  | 12.93                            | 0.53                 | 0.85  | TO         |
| CJJ3KR  |           | 12.55      | 0.18                 | 0.27  | 12.20                            | -0.19                | -0.31 | CE         |
| CK9KDC  |           | 13.45      | 1.07                 | 1.65  | 13.57                            | 1.18                 | 1.89  | TO         |
| CTANQQ  |           | 12.25      | -0.12                | -0.19 | 12.65                            | 0.26                 | 0.41  | DY         |
| DBZD2A  |           | 13.03      | 0.66                 | 1.01  | 13.08                            | 0.69                 | 1.10  | TO         |
| DXCCHH  |           | 12.30      | -0.07                | -0.11 | 12.33                            | -0.07                | -0.11 | WZ         |
| EJA3E9  |           | 12.29      | -0.08                | -0.13 | 12.32                            | -0.08                | -0.13 | TO         |
| EM9HMW  |           | 11.62      | -0.76                | -1.17 | 11.58                            | -0.82                | -1.31 | TO         |
| EU83RC  |           | 12.00      | -0.37                | -0.58 | 12.35                            | -0.04                | -0.07 | CE         |



# Plastics Interlaboratory Testing Program

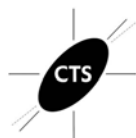
## Analysis 750

Report #136

4th Qtr 2025

### Flow Rates of Thermoplastics (190 or 230C/2.16 kg) - g/10 mins

| WebCode | Data Flag | Sample X13 |                      |       | Sample X14 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| F7HZAL  |           | 11.81      | -0.56                | -0.87 | 11.95      | -0.44                | -0.71 | TO         |
| FAJ429  |           | 12.03      | -0.34                | -0.52 | 12.16      | -0.23                | -0.38 | DY         |
| FFNMJ8  |           | 11.81      | -0.56                | -0.87 | 12.46      | 0.07                 | 0.11  | XX         |
| GED3BW  | *         | 14.30      | 1.93                 | 2.97  | 14.15      | 1.76                 | 2.82  | WZ         |
| GLAXBG  |           | 11.98      | -0.39                | -0.61 | 12.23      | -0.16                | -0.26 | DY         |
| HARWRR  |           | 11.71      | -0.66                | -1.02 | 11.57      | -0.82                | -1.32 | TO         |
| HFFKMX  |           | 12.61      | 0.23                 | 0.36  | 12.67      | 0.28                 | 0.44  | TO         |
| K7QBFF  |           | 12.39      | 0.01                 | 0.02  | 12.15      | -0.24                | -0.39 | TO         |
| KCQRNZ  |           | 12.94      | 0.57                 | 0.87  | 12.39      | 0.00                 | 0.00  | TO         |
| KNK9D2  | X         | 10.50      | -1.88                | -2.90 | 10.14      | -2.25                | -3.62 | CE         |
| L8HNGY  |           | 11.63      | -0.75                | -1.16 | 11.59      | -0.80                | -1.29 | TO         |
| LC844K  |           | 12.45      | 0.08                 | 0.12  | 12.65      | 0.26                 | 0.41  | TO         |
| LER6Y7  |           | 11.75      | -0.62                | -0.96 | 11.80      | -0.59                | -0.95 | CE         |
| LHFPU3  |           | 11.77      | -0.60                | -0.92 | 11.88      | -0.51                | -0.82 | CE         |
| LLDBJK  |           | 12.67      | 0.30                 | 0.46  | 12.33      | -0.06                | -0.10 | WZ         |
| LM2TC6  | X         | 13.00      | 0.63                 | 0.97  | 16.30      | 3.91                 | 6.28  | CE         |
| LM9V96  |           | 11.68      | -0.69                | -1.07 | 11.48      | -0.91                | -1.47 | TO         |
| LTA3RE  |           | 12.55      | 0.18                 | 0.27  | 12.60      | 0.21                 | 0.33  | TO         |
| LX46TT  | X         | 10.70      | -1.67                | -2.58 | 12.43      | 0.04                 | 0.06  | TO         |
| LX7UZZ  |           | 11.86      | -0.51                | -0.79 | 12.22      | -0.18                | -0.29 | TO         |
| M4T4KT  |           | 12.96      | 0.59                 | 0.91  | 13.19      | 0.80                 | 1.28  | QT         |
| MYVKJV  |           | 11.89      | -0.49                | -0.75 | 11.80      | -0.60                | -0.96 | WZ         |
| N3UY4Y  |           | 12.74      | 0.36                 | 0.56  | 12.14      | -0.26                | -0.41 | WZ         |
| NTLGCT  |           | 12.34      | -0.03                | -0.05 | 12.36      | -0.03                | -0.05 | TO         |
| NVDHCP  |           | 11.86      | -0.52                | -0.80 | 11.65      | -0.75                | -1.20 | DY         |
| NXKVXX  |           | 12.04      | -0.33                | -0.52 | 12.16      | -0.24                | -0.38 | TO         |
| P36H22  |           | 12.88      | 0.51                 | 0.78  | 12.98      | 0.58                 | 0.93  | TO         |
| PKQ2ZU  |           | 11.96      | -0.41                | -0.64 | 11.93      | -0.47                | -0.75 | TO         |
| QXUNNH  |           | 12.54      | 0.17                 | 0.26  | 12.75      | 0.36                 | 0.57  | CE         |
| TBQKXU  | X         | 14.51      | 2.14                 | 3.30  | 14.61      | 2.21                 | 3.55  | TO         |
| TLQD7K  |           | 12.24      | -0.13                | -0.21 | 12.54      | 0.14                 | 0.23  | WZ         |
| TNEKUN  |           | 12.77      | 0.39                 | 0.60  | 13.17      | 0.78                 | 1.25  | WZ         |
| TQMNFY  |           | 12.45      | 0.08                 | 0.12  | 12.20      | -0.20                | -0.32 | DY         |
| TU7RDW  |           | 12.35      | -0.02                | -0.04 | 12.25      | -0.14                | -0.23 | TO         |
| U6HGQR  |           | 11.62      | -0.75                | -1.16 | 11.67      | -0.73                | -1.17 | CE         |



# Plastics Interlaboratory Testing Program

## Analysis 750

Report #136

4th Qtr 2025

### Flow Rates of Thermoplastics (190 or 230C/2.16 kg) - g/10 mins

| WebCode | Data Flag | Sample X13 |                      |       | Sample X14 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| U9JJE9  |           | 12.65      | 0.28                 | 0.43  | 13.05      | 0.66                 | 1.06  | TO         |
| UADAKM  |           | 11.93      | -0.44                | -0.68 | 12.63      | 0.24                 | 0.38  | XX         |
| UGCUN4  |           | 11.51      | -0.86                | -1.33 | 11.79      | -0.60                | -0.97 | TO         |
| UL6WQH  |           | 12.13      | -0.24                | -0.38 | 12.03      | -0.36                | -0.58 | WZ         |
| V698MW  |           | 11.95      | -0.42                | -0.65 | 11.85      | -0.54                | -0.87 | WZ         |
| VMHTVM  |           | 13.89      | 1.51                 | 2.33  | 13.88      | 1.49                 | 2.39  | TO         |
| XDLUYX  | *         | 11.45      | -0.93                | -1.43 | 12.30      | -0.10                | -0.16 | XX         |
| XK4ZXQ  |           | 11.43      | -0.94                | -1.46 | 11.57      | -0.83                | -1.33 | TO         |
| Y2PDVV  |           | 12.35      | -0.02                | -0.04 | 12.10      | -0.29                | -0.47 | WZ         |
| Y679PU  |           | 11.23      | -1.14                | -1.77 | 11.08      | -1.32                | -2.12 | DY         |
| Y7TYMR  |           | 12.01      | -0.36                | -0.56 | 12.51      | 0.11                 | 0.18  | TO         |
| YQ2AE3  |           | 12.10      | -0.27                | -0.42 | 12.30      | -0.09                | -0.15 | TO         |
| YQ4YLK  |           | 11.95      | -0.42                | -0.65 | 11.44      | -0.95                | -1.53 | TO         |
| YRVZKG  |           | 11.65      | -0.72                | -1.12 | 12.05      | -0.34                | -0.55 | KA         |
| ZB6EH3  |           | 12.10      | -0.27                | -0.42 | 12.10      | -0.29                | -0.47 | WZ         |
| ZD9A26  |           | 11.55      | -0.82                | -1.27 | 11.36      | -1.04                | -1.66 | KA         |

#### Summary Statistics

##### Grand Means

##### Sample X13

12.374 grams/10 mins

##### Sample X14

12.393 grams/10 mins

##### Std Dev Btwn Labs

0.648 grams/10 mins

0.623 grams/10 mins

Statistics based on 77 of 86 reporting participants

Sample X13: PP & Sample X14: PP

#### Comments on Assigned Data Flags for Test #750

- LX46TT (X) - Inconsistent in testing between samples.
- 29WLZ9 (M) - Participant did not submit data for sample X14.
- 7W7HLW (X) - Data for sample X14 are high.
- 34J4JR (X) - Inconsistent in testing between samples. Inconsistent within the determinations of both samples.
- 469NPM (X) - Inconsistent in testing between samples.
- TBQKXU (X) - Data for both samples are high. Possible Systematic Error.
- CBM8K9 (X) - Data for both samples are high. Possible Systematic Error.
- KNK9D2 (X) - Data for both samples are low. Possible Systematic Error.
- LM2TC6 (X) - Data for sample X14 are high.



# Plastics Interlaboratory Testing Program

## Analysis 750

Report #136

4th Qtr 2025

Flow Rates of Thermoplastics (190 or 230C/2.16 kg) - g/10 mins

### Results by Methodology (as reported by laboratory)

| Test Methodology          | Sample X13<br><i>PP</i> |              |              | Sample X14<br><i>PP</i> |              |              | Labs Incl / Rpt |
|---------------------------|-------------------------|--------------|--------------|-------------------------|--------------|--------------|-----------------|
|                           | Group Mean              | Btwn Lab STD | Diff from GM | Group Mean              | Btwn Lab STD | Diff from GM |                 |
| Procedure A of ASTM D1238 | 12.402                  | 0.630        | 0.03         | 12.418                  | 0.558        | 0.02         | 33/39           |
| Procedure B of ASTM D1238 | 12.256                  | 0.603        | -0.12        | 12.280                  | 0.602        | -0.11        | 21/22           |
| Procedure A of ISO 1133   | 12.265                  | 0.741        | -0.11        | 12.289                  | 0.731        | -0.10        | 12/13           |
| Procedure B of ISO 1133   | 12.631                  | 0.685        | 0.26         | 12.649                  | 0.723        | 0.26         | 11/12           |

### Key to Instrument Codes Reported by Participants

|    |              |    |                                              |
|----|--------------|----|----------------------------------------------|
| CE | Ceast        | CS | CSI                                          |
| DY | Dynisco      | GO | Gottfert                                     |
| KA | Kayeness     | QT | Qualitest                                    |
| TO | Tinius Olsen | TY | Toyoseiki Seisakusho                         |
| WZ | Zwick        | XX | Instrument manufacturer not specified by lab |



# Plastics Interlaboratory Testing Program

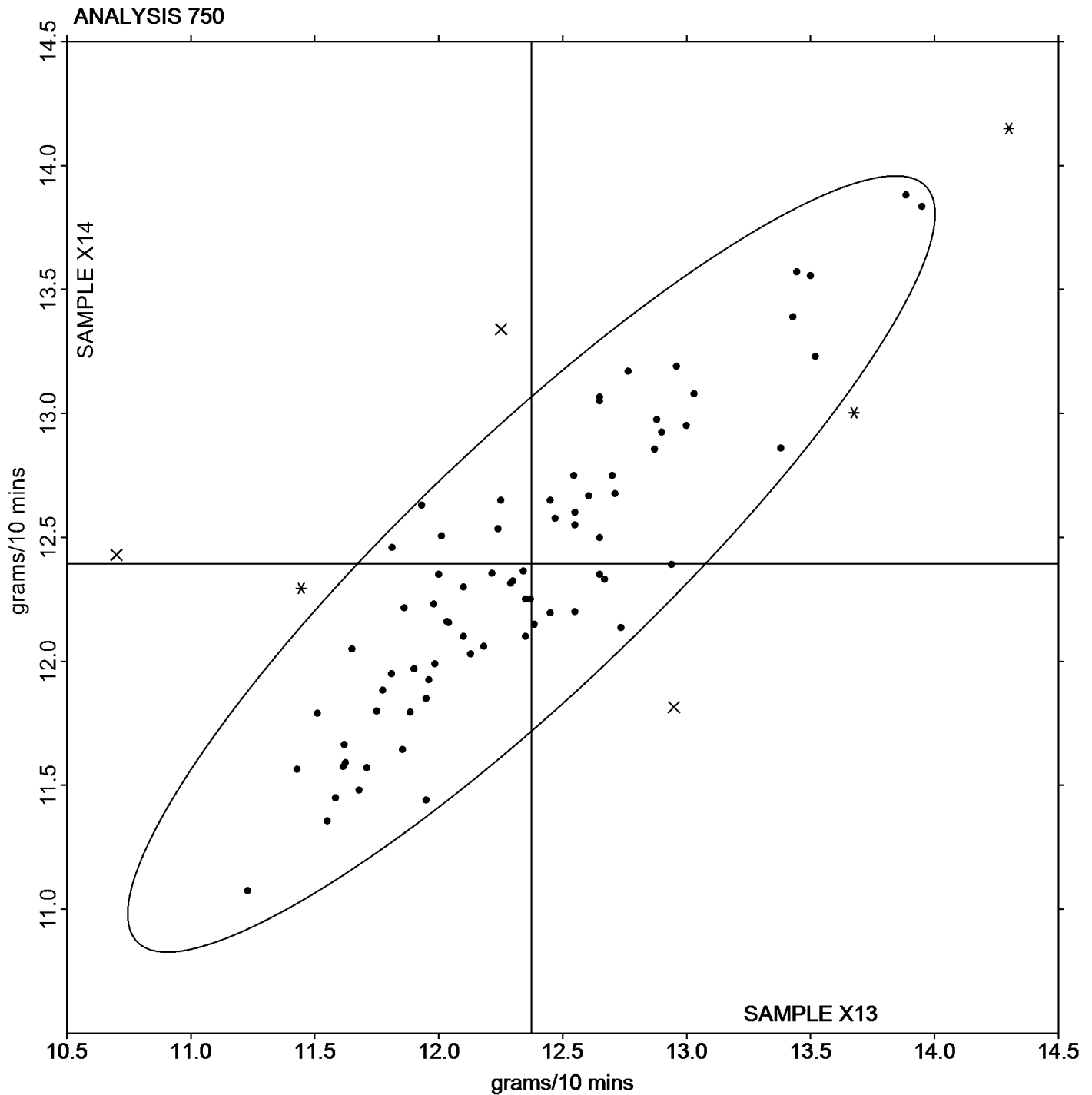
Analysis 750

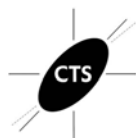
Flow Rates of Thermoplastics (190 or 230C/2.16 kg) - g/10 mins

Report #136

4th Qtr 2025

Grand Mean Sample X13: 12.374 grams/10 mins    Grand Mean Sample X14: 12.393 grams/10 mins





# Plastics Interlaboratory Testing Program

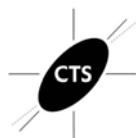
## Analysis 755

### Moisture Content of Plastics

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample Y13 |                      |       | Sample Y14 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 34J4JR  |           | 0.22833    | 0.05716              | 1.76  | 0.22333    | 0.05100              | 1.65  | AZ         |
| 3FCNKF  | X         | 0.10000    | -0.07117             | -2.19 | 0.08000    | -0.09233             | -2.98 | XX         |
| 3VLBBX  | *         | 0.25713    | 0.08596              | 2.64  | 0.25213    | 0.07980              | 2.57  | XX         |
| 473EV3  |           | 0.17167    | 0.00049              | 0.02  | 0.17067    | -0.00167             | -0.05 | MU         |
| 4X7TGM  |           | 0.16433    | -0.00684             | -0.21 | 0.17133    | -0.00100             | -0.03 | CT         |
| 6W8YJ3  |           | 0.16850    | -0.00267             | -0.08 | 0.15870    | -0.01363             | -0.44 | ML         |
| 6WANPL  |           | 0.17023    | -0.00094             | -0.03 | 0.17983    | 0.00750              | 0.24  | AZ         |
| 7BBKLT  |           | 0.17927    | 0.00809              | 0.25  | 0.17858    | 0.00625              | 0.20  | CT         |
| 7XH3TK  |           | 0.17320    | 0.00203              | 0.06  | 0.16447    | -0.00787             | -0.25 | AZ         |
| BVBFWH  |           | 0.15950    | -0.01167             | -0.36 | 0.16100    | -0.01133             | -0.37 | MU         |
| CTANQQ  |           | 0.22490    | 0.05373              | 1.65  | 0.21183    | 0.03950              | 1.27  | AZ         |
| D6XA9Q  |           | 0.18000    | 0.00883              | 0.27  | 0.18300    | 0.01067              | 0.34  | SB         |
| DJFXKA  |           | 0.18367    | 0.01249              | 0.38  | 0.18067    | 0.00833              | 0.27  | MU         |
| DWGTGG  |           | 0.18087    | 0.00969              | 0.30  | 0.18303    | 0.01070              | 0.35  | MU         |
| FFNMJ8  |           | 0.16733    | -0.00384             | -0.12 | 0.17667    | 0.00433              | 0.14  | XX         |
| GLAXBG  |           | 0.13933    | -0.03184             | -0.98 | 0.14900    | -0.02333             | -0.75 | AZ         |
| J8GE72  |           | 0.17767    | 0.00649              | 0.20  | 0.17967    | 0.00733              | 0.24  | XX         |
| KCQRNZ  | X         | 0.03742    | -0.13375             | -4.11 | 0.05970    | -0.11263             | -3.63 | CT         |
| KZX7LC  |           | 0.19767    | 0.02649              | 0.81  | 0.19877    | 0.02643              | 0.85  | MU         |
| LER6Y7  |           | 0.15333    | -0.01784             | -0.55 | 0.16300    | -0.00933             | -0.30 | MU         |
| LHFPU3  | X         | 0.11600    | -0.05517             | -1.70 | 0.08633    | -0.08600             | -2.78 | MU         |
| LKJKD7  |           | 0.17587    | 0.00469              | 0.14  | 0.17657    | 0.00423              | 0.14  | MD         |
| LLDBJK  |           | 0.17767    | 0.00649              | 0.20  | 0.17933    | 0.00700              | 0.23  | MU         |
| LM9V96  |           | 0.14267    | -0.02851             | -0.88 | 0.13700    | -0.03533             | -1.14 | CT         |
| LQ7BZ2  |           | 0.18033    | 0.00916              | 0.28  | 0.18167    | 0.00933              | 0.30  | CS         |
| LTA3RE  |           | 0.13267    | -0.03851             | -1.18 | 0.13200    | -0.04033             | -1.30 | BA         |
| M4PEGW  |           | 0.11833    | -0.05284             | -1.62 | 0.12000    | -0.05233             | -1.69 | BA         |
| N3UY4Y  |           | 0.11393    | -0.05724             | -1.76 | 0.11413    | -0.05820             | -1.88 | MU         |
| P36H22  |           | 0.09967    | -0.07151             | -2.20 | 0.10767    | -0.06467             | -2.09 | XX         |
| QXUNNH  |           | 0.17813    | 0.00696              | 0.21  | 0.17783    | 0.00550              | 0.18  | MK         |
| TQMNFY  |           | 0.19707    | 0.02589              | 0.80  | 0.20150    | 0.02917              | 0.94  | BA         |
| U6HGQR  |           | 0.13433    | -0.03684             | -1.13 | 0.13800    | -0.03433             | -1.11 | MU         |
| UJVZXY  | X         | 0.02143    | -0.14975             | -4.60 | 0.02086    | -0.15147             | -4.89 | CT         |
| Y2PDVV  |           | 0.17833    | 0.00716              | 0.22  | 0.17567    | 0.00333              | 0.11  | MK         |
| Y679PU  |           | 0.17165    | 0.00047              | 0.01  | 0.17466    | 0.00233              | 0.08  | MJ         |



# Plastics Interlaboratory Testing Program

## Analysis 755

### Moisture Content of Plastics

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample Y13 |                      |      | Sample Y14 |                      |      | Instr Code |
|---------|-----------|------------|----------------------|------|------------|----------------------|------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV  | Lab Mean   | Diff from Grand Mean | CPV  |            |
| YB8KLQ  |           | 0.20000    | 0.02883              | 0.89 | 0.21300    | 0.04067              | 1.31 | SA         |

#### Summary Statistics

|                           | Sample Y13       | Sample Y14       |
|---------------------------|------------------|------------------|
| <b>Grand Means</b>        | 0.171174 Percent | 0.172335 Percent |
| <b>Stnd Dev Btwn Labs</b> | 0.032531 Percent | 0.030990 Percent |

Statistics based on 32 of 36 reporting participants

Sample Y13: ABS/PC & Sample Y14: ABS/PC

#### Comments on Assigned Data Flags for Test #755

LHFPU3 (X) - Data for sample Y14 are low.

KCQRNZ (X) - Data for both samples are low. Possible Systematic Error.

3FCNKF (X) - Data for sample Y14 are low.

UJVZXY (X) - Data for both samples are low. Possible Systematic Error.

#### Results by Methodology (as reported by laboratory)

| Test Methodology   | Sample Y13<br>ABS/PC |              |              | Sample Y14<br>ABS/PC |              |              | Labs Incl / Rpt |
|--------------------|----------------------|--------------|--------------|----------------------|--------------|--------------|-----------------|
|                    | Group Mean           | Btwn Lab STD | Diff from GM | Group Mean           | Btwn Lab STD | Diff from GM |                 |
| ASTM D6869         | 0.180337             | 0.032129     | 0.0092       | 0.180320             | 0.030134     | 0.0080       | 10/12           |
| ISO 15512 Method B | 0.163943             | 0.028094     | -0.0072      | 0.164326             | 0.028118     | -0.0080      | 5/5             |
| ASTM D6980         | 0.164229             | 0.039484     | -0.0069      | 0.168167             | 0.038422     | -0.0042      | 8/10            |
| ASTM D7191         | 0.174600             | 0.029611     | 0.0034       | 0.173897             | 0.025878     | 0.0016       | 6/6             |

#### Key to Instrument Codes Reported by Participants

|                                                 |                                                        |
|-------------------------------------------------|--------------------------------------------------------|
| <b>AZ</b> Arizona Instruments Moisture Analyzer | <b>BA</b> Brabender Aquatrac                           |
| <b>CS</b> Cosa Instruments                      | <b>CT</b> Computrac Moisture Analyzer                  |
| <b>MD</b> Mettler Toledo DL37                   | <b>MJ</b> Mitsubishi KF Analyzer Series                |
| <b>MK</b> Mitsubishi KF Analyzer CA             | <b>ML</b> Metrohm Coulometer                           |
| <b>MU</b> Mettler Toledo                        | <b>SA</b> Sartorius MA30                               |
| <b>SB</b> Sartorius Mark 3                      | <b>XX</b> Instrument manufacturer not specified by lab |



# Plastics Interlaboratory Testing Program

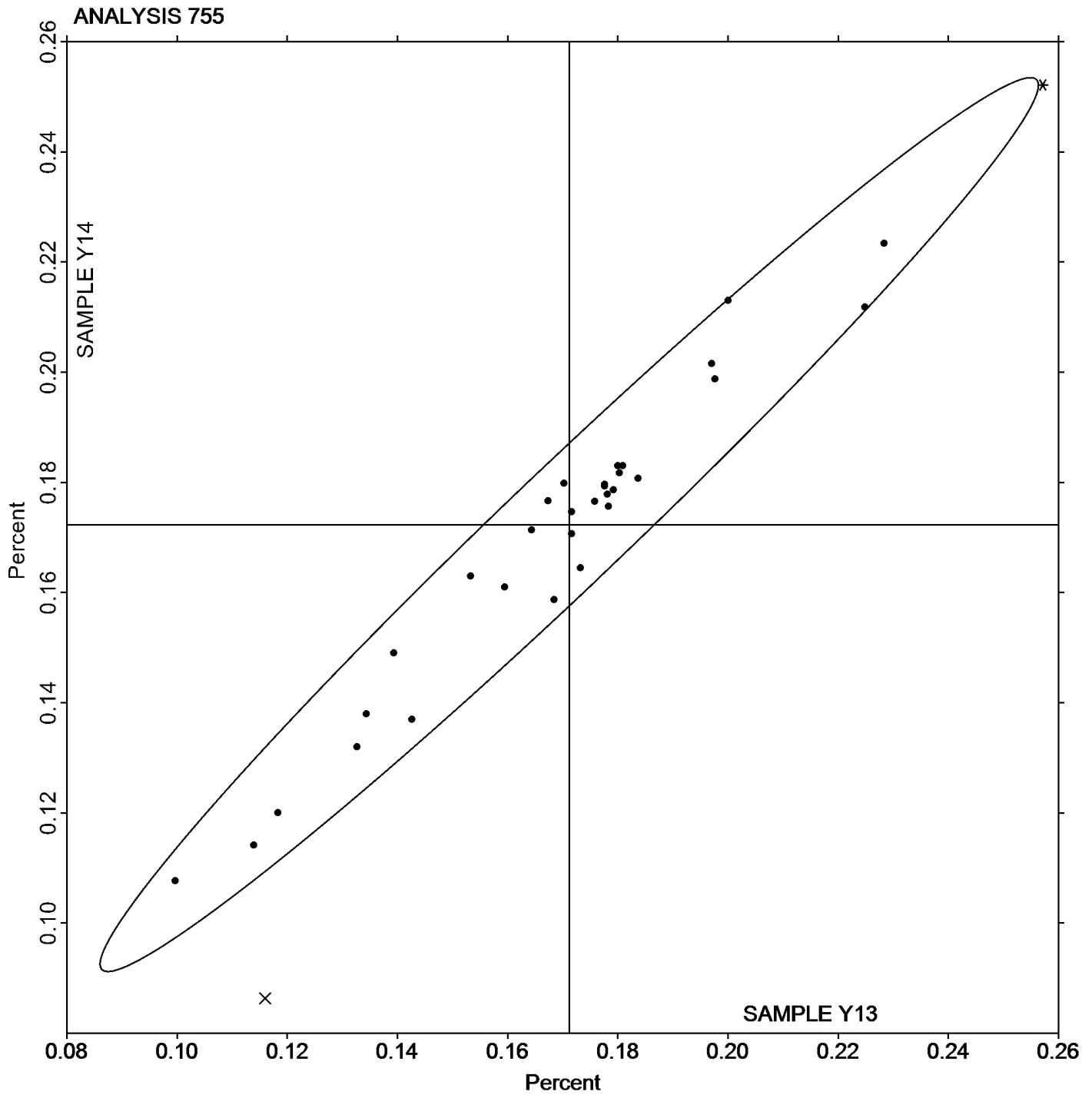
Analysis 755

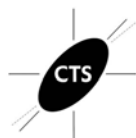
Moisture Content of Plastics

Report #136

4th Qtr 2025

Grand Mean Sample Y13: 0.17117 Percent    Grand Mean Sample Y14: 0.17233 Percent





# Plastics Interlaboratory Testing Program

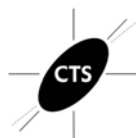
## Analysis 757

Report #136

4th Qtr 2025

### Ash Content in Thermoplastics - Percent

| WebCode | Data Flag | Sample L13 |                      |        | Sample L14 |                      |        |
|---------|-----------|------------|----------------------|--------|------------|----------------------|--------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV    | Lab Mean   | Diff from Grand Mean | CPV    |
| 2HJMJ4  |           | 29.720     | 0.024                | 0.32   | 29.765     | 0.091                | 1.11   |
| 34J4JR  |           | 29.795     | 0.099                | 1.30   | 29.625     | -0.049               | -0.60  |
| 36CUP7  |           | 29.734     | 0.038                | 0.50   | 29.719     | 0.045                | 0.55   |
| 3FCNKF  | X         | 31.500     | 1.804                | 23.64  | 31.045     | 1.371                | 16.73  |
| 3VLBBX  |           | 29.697     | 0.001                | 0.01   | 29.715     | 0.041                | 0.50   |
| 3WF2GC  | *         | 29.695     | -0.001               | -0.01  | 29.460     | -0.214               | -2.62  |
| 469NPM  |           | 29.640     | -0.056               | -0.73  | 29.710     | 0.036                | 0.44   |
| 473EV3  |           | 29.655     | -0.041               | -0.53  | 29.725     | 0.051                | 0.62   |
| 4VJ3JP  |           | 29.740     | 0.044                | 0.58   | 29.735     | 0.061                | 0.74   |
| 4X7TGM  |           | 29.745     | 0.049                | 0.65   | 29.750     | 0.076                | 0.92   |
| 6W8YJ3  | *         | 29.515     | -0.181               | -2.37  | 29.495     | -0.179               | -2.19  |
| 7NYL6K  | X         | 26.925     | -2.771               | -36.30 | 26.180     | -3.494               | -42.65 |
| 8QUULZ  |           | 29.765     | 0.069                | 0.91   | 29.725     | 0.051                | 0.62   |
| AHEV6U  |           | 29.640     | -0.056               | -0.73  | 29.710     | 0.036                | 0.44   |
| B2LMK2  |           | 29.665     | -0.031               | -0.40  | 29.530     | -0.144               | -1.76  |
| BF3HZX  |           | 29.785     | 0.089                | 1.17   | 29.705     | 0.031                | 0.37   |
| BTTAMM  | X         | 29.650     | -0.046               | -0.60  | 29.210     | -0.464               | -5.67  |
| CBQUZ2  |           | 29.655     | -0.041               | -0.53  | 29.645     | -0.029               | -0.36  |
| CJKUFE  |           | 29.700     | 0.004                | 0.06   | 29.700     | 0.026                | 0.31   |
| D6XA9Q  | X         | 29.905     | 0.209                | 2.74   | 29.990     | 0.316                | 3.85   |
| EJA3E9  |           | 29.773     | 0.077                | 1.01   | 29.734     | 0.060                | 0.73   |
| EM9HMW  |           | 29.765     | 0.069                | 0.91   | 29.770     | 0.096                | 1.17   |
| F7HZAL  |           | 29.575     | -0.121               | -1.58  | 29.710     | 0.036                | 0.44   |
| FFNMJ8  |           | 29.735     | 0.039                | 0.52   | 29.630     | -0.044               | -0.54  |
| HFFKMX  |           | 29.835     | 0.139                | 1.83   | 29.855     | 0.181                | 2.21   |
| JFCEMF  |           | 29.735     | 0.039                | 0.52   | 29.725     | 0.051                | 0.62   |
| K38BZZ  |           | 29.765     | 0.069                | 0.90   | 29.608     | -0.067               | -0.82  |
| K7QBFF  |           | 29.760     | 0.064                | 0.84   | 29.710     | 0.036                | 0.44   |
| KCQRNZ  |           | 29.700     | 0.004                | 0.06   | 29.740     | 0.066                | 0.80   |
| LC844K  | X         | 29.295     | -0.401               | -5.25  | 29.370     | -0.304               | -3.71  |
| LHFPU3  |           | 29.572     | -0.124               | -1.62  | 29.613     | -0.061               | -0.75  |
| LKJKD7  |           | 29.680     | -0.016               | -0.20  | 29.560     | -0.114               | -1.40  |
| LLDBJK  |           | 29.700     | 0.004                | 0.06   | 29.580     | -0.094               | -1.15  |
| LQ7BZ2  |           | 29.760     | 0.064                | 0.84   | 29.710     | 0.036                | 0.44   |
| LX7UZZ  |           | 29.650     | -0.046               | -0.60  | 29.580     | -0.094               | -1.15  |



# Plastics Interlaboratory Testing Program

## Analysis 757

Report #136

4th Qtr 2025

### Ash Content in Thermoplastics - Percent

| WebCode | Data Flag | Sample L13 |                      |       | Sample L14 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| MGYT24  |           | 29.595     | -0.101               | -1.32 | 29.575     | -0.099               | -1.21 |
| N3UY4Y  |           | 29.698     | 0.003                | 0.03  | 29.741     | 0.067                | 0.82  |
| NXKVXX  |           | 29.593     | -0.103               | -1.35 | 29.686     | 0.011                | 0.14  |
| P36H22  |           | 29.650     | -0.046               | -0.60 | 29.620     | -0.054               | -0.66 |
| PQY68V  | *         | 29.500     | -0.196               | -2.56 | 29.600     | -0.074               | -0.91 |
| PTL437  |           | 29.591     | -0.104               | -1.37 | 29.623     | -0.052               | -0.63 |
| QXUNNH  | X         | 29.100     | -0.596               | -7.80 | 29.700     | 0.026                | 0.31  |
| TBQKXU  |           | 29.755     | 0.059                | 0.78  | 29.710     | 0.036                | 0.44  |
| TQMNFY  |           | 29.750     | 0.054                | 0.71  | 29.740     | 0.066                | 0.80  |
| TU7RDW  |           | 29.775     | 0.079                | 1.04  | 29.730     | 0.056                | 0.68  |
| U6HGQR  |           | 29.815     | 0.120                | 1.57  | 29.777     | 0.103                | 1.26  |
| UADAKM  |           | 29.740     | 0.044                | 0.58  | 29.670     | -0.004               | -0.05 |
| V698MW  |           | 29.675     | -0.021               | -0.27 | 29.520     | -0.154               | -1.88 |
| VMHTVM  |           | 29.735     | 0.039                | 0.52  | 29.695     | 0.021                | 0.25  |
| WMBTYW  |           | 29.755     | 0.059                | 0.78  | 29.780     | 0.106                | 1.29  |
| XDLUYX  |           | 29.720     | 0.024                | 0.32  | 29.620     | -0.054               | -0.66 |
| XK4ZXQ  |           | 29.635     | -0.061               | -0.79 | 29.715     | 0.041                | 0.50  |
| Y2PDVV  |           | 29.740     | 0.044                | 0.58  | 29.735     | 0.061                | 0.74  |
| Y679PU  |           | 29.590     | -0.106               | -1.38 | 29.625     | -0.049               | -0.60 |
| YQ2AE3  | X         | 29.360     | -0.336               | -4.40 | 29.210     | -0.464               | -5.67 |
| ZG9JAL  |           | 29.625     | -0.071               | -0.93 | 29.640     | -0.034               | -0.42 |

#### Summary Statistics

##### Grand Means

Sample L13  
29.6956 Percent

Sample L14  
29.6743 Percent

##### Stnd Dev Btwn Labs

0.0763 Percent

0.0819 Percent

Statistics based on 49 of 56 reporting participants

Sample L13: PBT & Sample L14: PBT



## Plastics Interlaboratory Testing Program

### Analysis 757

#### Ash Content in Thermoplastics - Percent

Report #136

4th Qtr 2025

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#### **Comments on Assigned Data Flags for Test #757**

- QXUNNH (X) - Data for sample L13 are low.
- LC844K (X) - Data for both samples are low.
- YQ2AE3 (X) - Data for both samples are low.
- D6XA9Q (X) - Data for both samples are high. Inconsistent within the determinations of sample L14.
- BTTAMM (X) - Data for sample L14 are low. Inconsistent within the determinations of sample L14.
- 7NYL6K (X) - Data for both samples are low. Inconsistent within the determinations of both samples.
- 3FCNKF (X) - Data for both samples are high. Inconsistent within the determinations of sample L14.



# Plastics Interlaboratory Testing Program

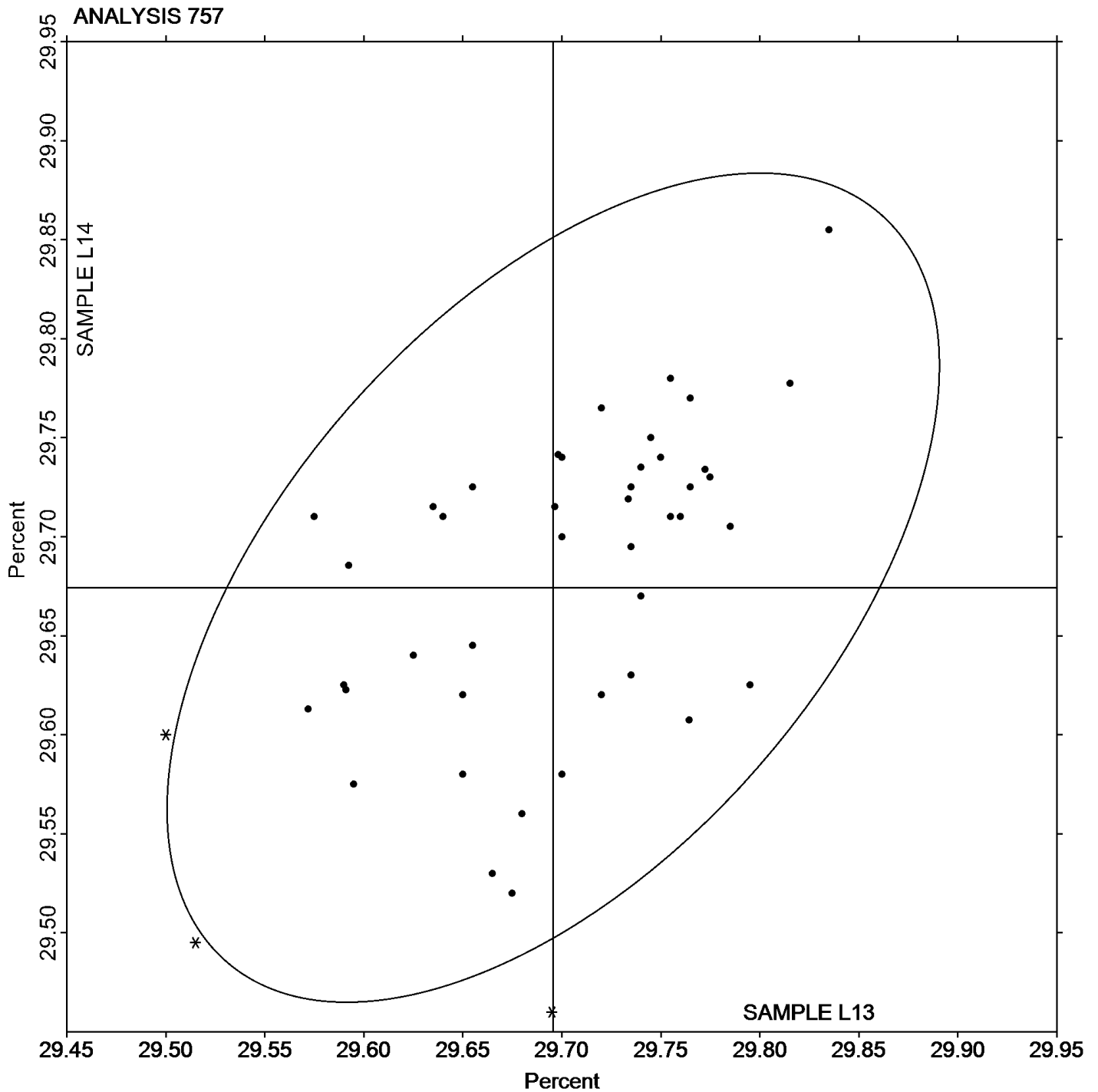
Analysis 757

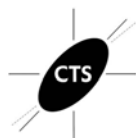
Ash Content in Thermoplastics - Percent

Report #136

4th Qtr 2025

Grand Mean Sample L13: 29.696 Percent    Grand Mean Sample L14: 29.674 Percent





# Plastics Interlaboratory Testing Program

## Analysis 758

### Thermogravimetric Analysis

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample A13 |                      |       | Sample A14 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 4NY34C  |           | 79.42      | 0.20                 | 0.54  | 79.38      | 0.29                 | 0.66  | TA         |
| 6W8YJ3  |           | 79.24      | 0.03                 | 0.07  | 79.35      | 0.26                 | 0.59  | TA         |
| 887BUM  |           | 79.08      | -0.14                | -0.36 | 78.79      | -0.30                | -0.69 | XX         |
| 8QWMHM  |           | 79.40      | 0.19                 | 0.49  | 79.32      | 0.23                 | 0.52  | TA         |
| 9Y87ER  |           | 79.34      | 0.13                 | 0.33  | 79.33      | 0.24                 | 0.54  | PE         |
| AHEV6U  |           | 79.27      | 0.06                 | 0.15  | 79.36      | 0.27                 | 0.61  | TA         |
| DYT9BG  |           | 79.20      | -0.02                | -0.05 | 79.44      | 0.35                 | 0.81  | TA         |
| FHU6H3  |           | 79.52      | 0.31                 | 0.80  | 79.30      | 0.21                 | 0.48  | NZ         |
| JG67TU  |           | 78.78      | -0.44                | -1.15 | 78.98      | -0.11                | -0.25 | NZ         |
| LHFPU3  |           | 79.17      | -0.05                | -0.12 | 79.47      | 0.39                 | 0.88  | TA         |
| LX7UZH  |           | 78.55      | -0.67                | -1.75 | 78.55      | -0.54                | -1.22 | TA         |
| MGYT24  |           | 79.17      | -0.04                | -0.12 | 79.21      | 0.12                 | 0.28  | TA         |
| UAAM6U  |           | 79.44      | 0.23                 | 0.59  | 79.61      | 0.52                 | 1.18  | TA         |
| UL6WQH  |           | 79.68      | 0.46                 | 1.21  | 78.72      | -0.37                | -0.84 | TA         |
| VH3FUZ  |           | 78.37      | -0.85                | -2.22 | 78.29      | -0.80                | -1.82 | MT         |
| VMHTVM  |           | 79.00      | -0.21                | -0.56 | 78.77      | -0.32                | -0.72 | TA         |
| YQ2AE3  |           | 79.27      | 0.05                 | 0.13  | 79.56      | 0.47                 | 1.08  | TA         |
| ZH2B3J  | *         | 79.99      | 0.78                 | 2.03  | 78.17      | -0.92                | -2.09 | TA         |

#### Summary Statistics

##### Sample A13

##### Sample A14

#### Grand Means

79.214 Percent

79.086 Percent

#### Stnd Dev Btwn Labs

0.383 Percent

0.438 Percent

Statistics based on 18 of 18 reporting participants

Sample A13: PP & Sample A14: PP

### Results by Methodology (as reported by laboratory)

| Test Methodology | Sample A13 |              |              | Sample A14 |              |              | Labs Incl / Rpt |
|------------------|------------|--------------|--------------|------------|--------------|--------------|-----------------|
|                  | Group Mean | Btwn Lab STD | Diff from GM | Group Mean | Btwn Lab STD | Diff from GM |                 |
| ASTM D3850       | 79.390     | 0.258        | 0.18         | 79.250     | 0.421        | 0.16         | 9/9             |
| ISO 11358        | 79.033     | 0.446        | -0.18        | 78.940     | 0.439        | -0.15        | 8/8             |



**Plastics Interlaboratory Testing Program**  
**Analysis 758**  
**Thermogravimetric Analysis**

**Report #136**  
**4th Qtr 2025**

**Key to Instrument Codes Reported by Participants**

|           |                                              |           |                     |
|-----------|----------------------------------------------|-----------|---------------------|
| <b>MT</b> | Mettler Toledo Instruments                   | <b>NZ</b> | Netzsch Instruments |
| <b>PE</b> | Perkins Elmer Instruments                    | <b>TA</b> | TA Instruments      |
| <b>XX</b> | Instrument manufacturer not specified by lab |           |                     |



# Plastics Interlaboratory Testing Program

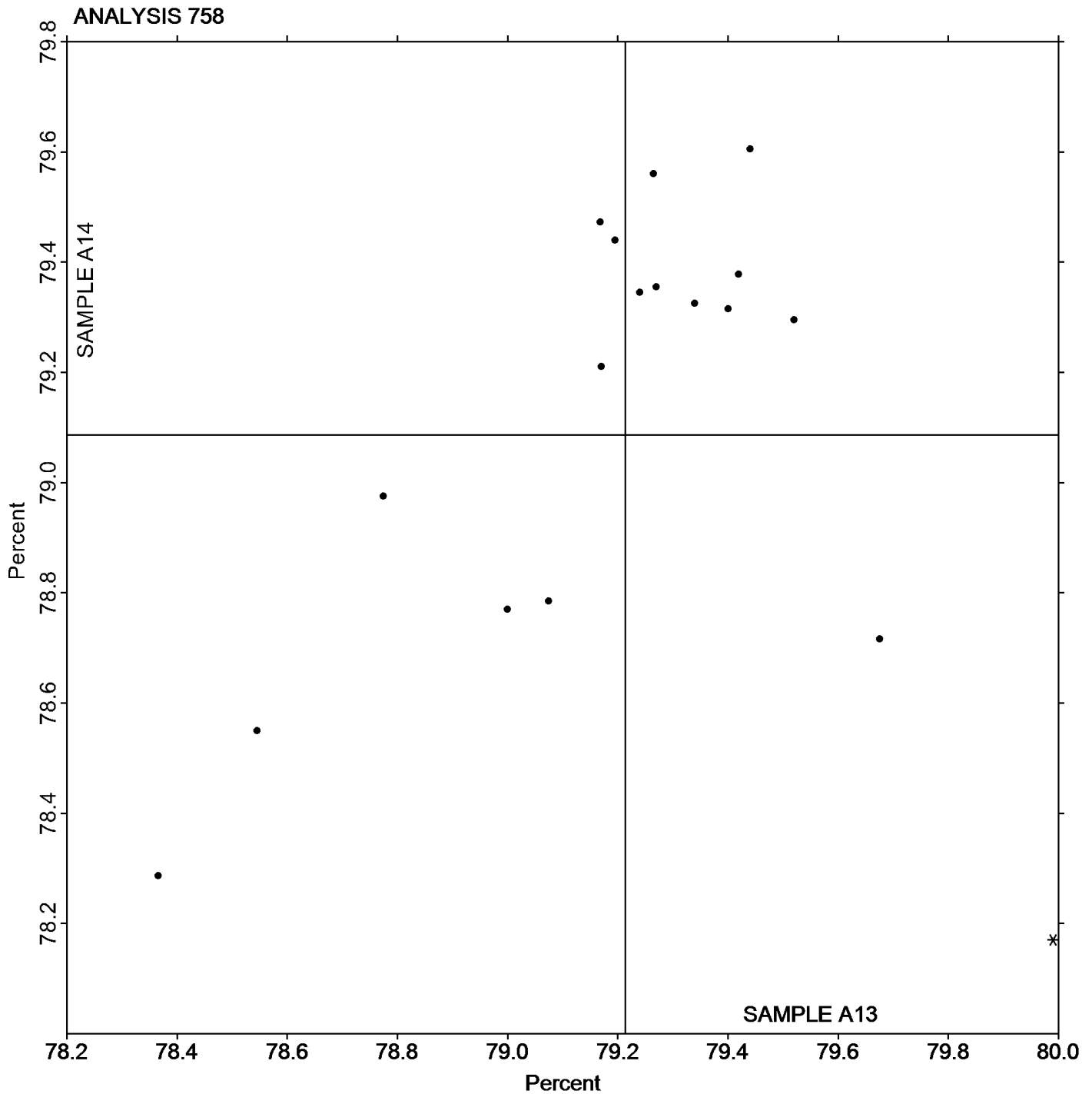
## Analysis 758

### Thermogravimetric Analysis

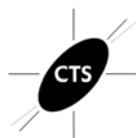
Report #136

4th Qtr 2025

Grand Mean Sample A13: 79.214 Percent    Grand Mean Sample A14: 79.086 Percent



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot.



# Plastics Interlaboratory Testing Program

## Analysis 760

### DSC Crystallization Temperature

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample W13 |                      |       | Sample W14 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 3WF2GC  |           | 174.38     | 0.27                 | 0.05  | 174.29     | 0.28                 | 0.05  | TA         |
| 6WANPL  |           | 185.59     | 11.48                | 2.18  | 185.84     | 11.84                | 2.20  | TA         |
| 7M37RN  |           | 168.70     | -5.41                | -1.03 | 168.30     | -5.71                | -1.06 | NZ         |
| 7ZQBXY  |           | 170.14     | -3.97                | -0.75 | 169.01     | -5.00                | -0.93 | TA         |
| 887BUM  |           | 176.66     | 2.55                 | 0.48  | 175.68     | 1.67                 | 0.31  | TA         |
| 8QWMHM  |           | 177.50     | 3.38                 | 0.64  | 177.76     | 3.75                 | 0.70  | TA         |
| AHEV6U  |           | 173.00     | -1.11                | -0.21 | 173.15     | -0.86                | -0.16 | TA         |
| DWGTGG  |           | 171.33     | -2.78                | -0.53 | 171.63     | -2.37                | -0.44 | TA         |
| DYT9BG  |           | 180.97     | 6.85                 | 1.30  | 181.80     | 7.79                 | 1.45  | TA         |
| FFNMJ8  | X         | 180.77     | 6.66                 | 1.26  | 184.72     | 10.71                | 1.99  | TA         |
| FHU6H3  |           | 173.77     | -0.35                | -0.07 | 173.23     | -0.77                | -0.14 | NZ         |
| JG67TU  |           | 168.17     | -5.95                | -1.13 | 168.10     | -5.91                | -1.10 | NZ         |
| KCQRNZ  |           | 168.10     | -6.02                | -1.14 | 167.92     | -6.09                | -1.13 | PE         |
| LX7UZH  |           | 169.70     | -4.41                | -0.84 | 169.60     | -4.41                | -0.82 | TA         |
| LZWXQW  |           | 173.15     | -0.97                | -0.18 | 173.60     | -0.41                | -0.08 | SH         |
| MGYT24  |           | 170.39     | -3.72                | -0.71 | 170.85     | -3.16                | -0.59 | TA         |
| MHAUN2  |           | 173.48     | -0.63                | -0.12 | 173.05     | -0.96                | -0.18 | TA         |
| MUZNXA  |           | 175.13     | 1.01                 | 0.19  | 175.61     | 1.61                 | 0.30  | MT         |
| N3UY4Y  |           | 179.76     | 5.64                 | 1.07  | 179.84     | 5.83                 | 1.08  | TA         |
| P36H22  |           | 169.13     | -4.98                | -0.94 | 168.63     | -5.37                | -1.00 | NZ         |
| RUQD6M  |           | 170.25     | -3.86                | -0.73 | 169.45     | -4.56                | -0.85 | PE         |
| TNEKUN  | X         | 170.39     | -3.72                | -0.71 | 177.04     | 3.03                 | 0.56  | TA         |
| UAAM6U  |           | 178.07     | 3.96                 | 0.75  | 177.63     | 3.63                 | 0.67  | TA         |
| UADAKM  |           | 180.79     | 6.67                 | 1.27  | 180.41     | 6.40                 | 1.19  | TA         |
| UUG66X  | X         | 219.02     | 44.90                | 8.52  | 215.16     | 41.15                | 7.64  | TA         |
| VMHTVM  | X         | 174.27     | 0.15                 | 0.03  | 169.40     | -4.61                | -0.85 | TA         |
| XDLUYX  |           | 185.69     | 11.58                | 2.20  | 185.54     | 11.53                | 2.14  | TA         |
| Y679PU  |           | 170.03     | -4.08                | -0.77 | 170.10     | -3.91                | -0.72 | TA         |
| ZH2B3J  |           | 168.98     | -5.13                | -0.97 | 169.15     | -4.86                | -0.90 | TA         |



# Plastics Interlaboratory Testing Program

## Analysis 760

### DSC Crystallization Temperature

Report #136

4th Qtr 2025

#### Summary Statistics

##### Grand Means

##### Sample W13

174.114 Degrees Celsius

##### Sample W14

174.007 Degrees Celsius

##### Stnd Dev Btwn Labs

5.272 Degrees Celsius

5.389 Degrees Celsius

Statistics based on 25 of 29 reporting participants

Sample W13: PBT & Sample W14: PBT

#### Comments on Assigned Data Flags for Test #760

TNEKUN (X) - Inconsistent in testing between samples.

FFNMJ8 (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample W13.

VMHTVM (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample W13.

UUG66X (X) - Data for both samples are high. Inconsistent within the determinations of both samples.

#### Key to Instrument Codes Reported by Participants

MT Mettler Toledo Instruments

NZ Netzsch Instruments

PE Perkins Elmer Instruments

SH Shimadzu

TA TA Instruments



# Plastics Interlaboratory Testing Program

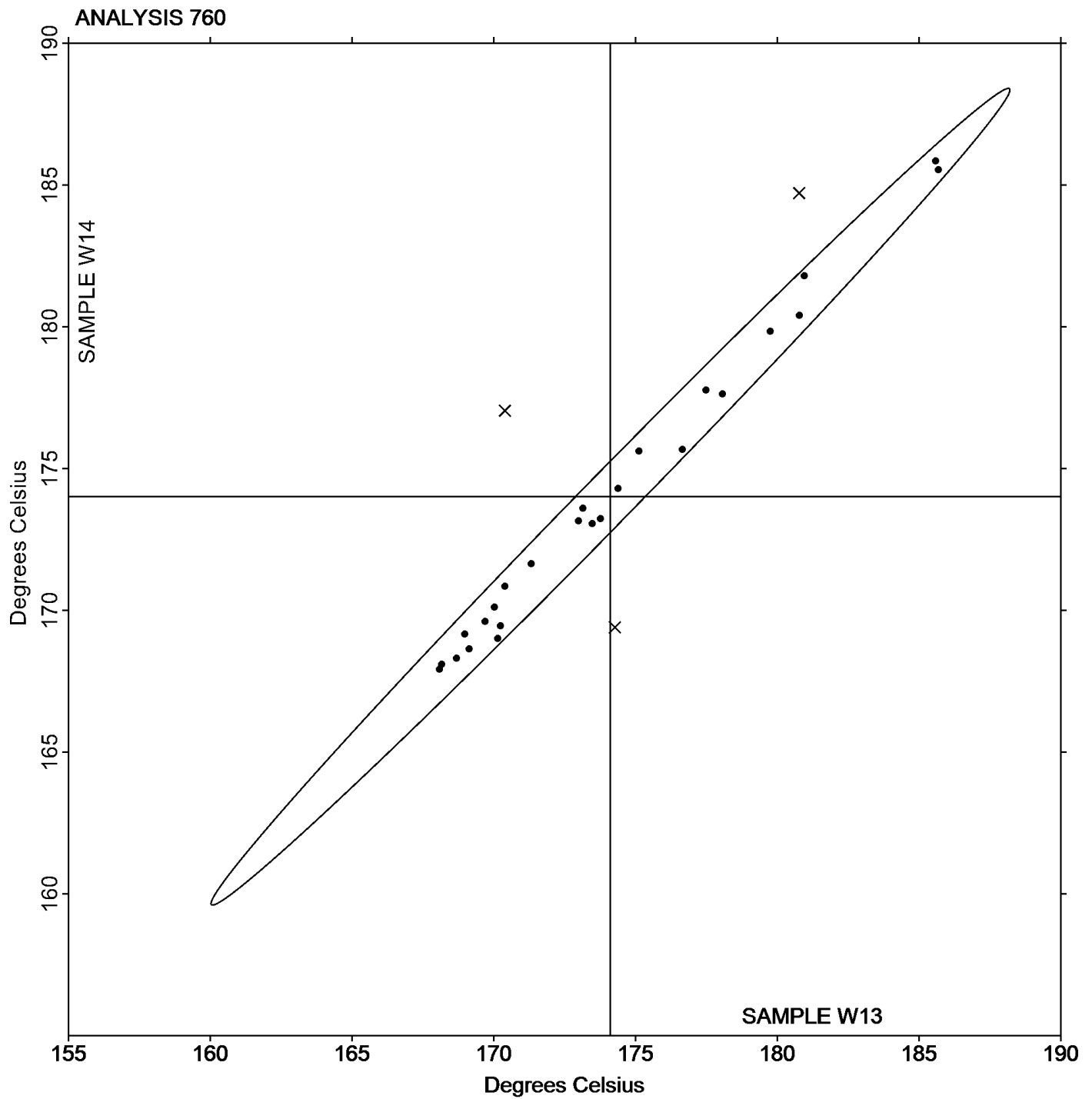
Analysis 760

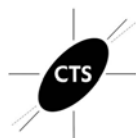
DSC Crystallization Temperature

Report #136

4th Qtr 2025

Grand Mean Sample W13: 174.11 Degrees Celsius    Grand Mean Sample W14: 174.01 Degrees Celsius





# Plastics Interlaboratory Testing Program

## Analysis 761

### DSC Melt Temperature

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample W13 |                      |       | Sample W14 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 36CUP7  |           | 223.63     | 0.37                 | 0.20  | 223.22     | 0.00                 | 0.00  | TA         |
| 3VKP9Q  | *         | 224.55     | 1.29                 | 0.69  | 223.00     | -0.22                | -0.11 | TA         |
| 3WF2GC  |           | 224.56     | 1.30                 | 0.70  | 224.43     | 1.21                 | 0.61  | TA         |
| 6W8YJ3  |           | 224.02     | 0.76                 | 0.40  | 224.66     | 1.44                 | 0.73  | TA         |
| 6WANPL  |           | 222.88     | -0.38                | -0.20 | 223.84     | 0.61                 | 0.31  | TA         |
| 7M37RN  |           | 221.90     | -1.36                | -0.73 | 222.33     | -0.89                | -0.45 | NZ         |
| 7ZQBXY  |           | 226.31     | 3.05                 | 1.63  | 225.77     | 2.55                 | 1.29  | TA         |
| 887BUM  |           | 220.67     | -2.59                | -1.38 | 220.82     | -2.40                | -1.22 | TA         |
| 8QWMHM  |           | 223.27     | 0.01                 | 0.01  | 223.50     | 0.28                 | 0.14  | TA         |
| AHEV6U  |           | 222.45     | -0.81                | -0.43 | 222.22     | -1.00                | -0.51 | TA         |
| DWGTGG  |           | 222.00     | -1.26                | -0.67 | 221.77     | -1.46                | -0.74 | TA         |
| DYT9BG  |           | 223.03     | -0.23                | -0.12 | 222.03     | -1.19                | -0.60 | TA         |
| FFNMJ8  |           | 220.30     | -2.96                | -1.58 | 220.07     | -3.15                | -1.60 | TA         |
| FHU6H3  |           | 220.27     | -2.99                | -1.60 | 220.17     | -3.06                | -1.55 | NZ         |
| JG67TU  |           | 223.60     | 0.34                 | 0.18  | 224.07     | 0.84                 | 0.43  | NZ         |
| KCQRNZ  |           | 218.65     | -4.61                | -2.46 | 218.51     | -4.72                | -2.39 | PE         |
| LC844K  |           | 226.40     | 3.14                 | 1.68  | 227.13     | 3.91                 | 1.98  | TA         |
| LR4KTH  |           | 224.26     | 1.00                 | 0.54  | 224.24     | 1.02                 | 0.52  | SH         |
| LTA3RE  |           | 221.67     | -1.59                | -0.85 | 221.63     | -1.59                | -0.80 | TA         |
| LX7UZZ  |           | 223.40     | 0.14                 | 0.08  | 223.17     | -0.06                | -0.03 | TA         |
| LZWXQW  |           | 225.04     | 1.78                 | 0.95  | 225.12     | 1.90                 | 0.96  | SH         |
| MGYT24  |           | 223.41     | 0.15                 | 0.08  | 223.06     | -0.17                | -0.08 | TA         |
| MHAUN2  |           | 223.51     | 0.25                 | 0.14  | 224.10     | 0.88                 | 0.45  | TA         |
| MUZNXA  |           | 222.51     | -0.75                | -0.40 | 222.38     | -0.85                | -0.43 | MT         |
| N3UY4Y  |           | 222.37     | -0.89                | -0.48 | 222.10     | -1.12                | -0.57 | TA         |
| P36H22  |           | 225.03     | 1.77                 | 0.95  | 225.20     | 1.98                 | 1.00  | NZ         |
| QXUNNH  |           | 223.32     | 0.06                 | 0.03  | 223.59     | 0.37                 | 0.19  | TA         |
| RUQD6M  |           | 225.42     | 2.16                 | 1.15  | 225.44     | 2.22                 | 1.12  | PE         |
| TNEKUN  |           | 223.11     | -0.15                | -0.08 | 222.80     | -0.42                | -0.21 | TA         |
| UAAM6U  | *         | 228.00     | 4.74                 | 2.53  | 228.45     | 5.22                 | 2.65  | TA         |
| UADAKM  |           | 224.67     | 1.41                 | 0.76  | 224.06     | 0.84                 | 0.43  | XX         |
| UUG66X  | X         | 214.18     | -9.08                | -4.84 | 214.83     | -8.39                | -4.25 | TA         |
| VMHTVM  |           | 221.70     | -1.56                | -0.83 | 221.20     | -2.02                | -1.02 | TA         |
| XDLUYX  |           | 223.78     | 0.52                 | 0.28  | 223.96     | 0.74                 | 0.37  | XX         |
| Y679PU  |           | 222.67     | -0.59                | -0.32 | 222.70     | -0.52                | -0.26 | TA         |



# Plastics Interlaboratory Testing Program

## Analysis 761

### DSC Melt Temperature

Report #136

4th Qtr 2025

| WebCode | Data Flag | <u>Sample W13</u> |                      |       | <u>Sample W14</u> |                      |       | Instr Code |
|---------|-----------|-------------------|----------------------|-------|-------------------|----------------------|-------|------------|
|         |           | Lab Mean          | Diff from Grand Mean | CPV   | Lab Mean          | Diff from Grand Mean | CPV   |            |
| ZH2B3J  |           | 221.69            | -1.57                | -0.84 | 222.04            | -1.19                | -0.60 | TA         |

#### Summary Statistics

##### Grand Means

Sample W13  
223.259 Degrees Celsius

Sample W14  
223.222 Degrees Celsius

##### Stnd Dev Btwn Labs

1.874 Degrees Celsius

1.975 Degrees Celsius

Statistics based on 35 of 36 reporting participants

Sample W13: PBT & Sample W14: PBT

#### Comments on Assigned Data Flags for Test #761

UUG66X (X) - Data for both samples are low. Possible Systematic Error. Inconsistent within the determinations of sample W14.

#### Key to Instrument Codes Reported by Participants

|    |                            |    |                                              |
|----|----------------------------|----|----------------------------------------------|
| MT | Mettler Toledo Instruments | NZ | Netzsch Instruments                          |
| PE | Perkins Elmer Instruments  | SH | Shimadzu                                     |
| TA | TA Instruments             | XX | Instrument manufacturer not specified by lab |



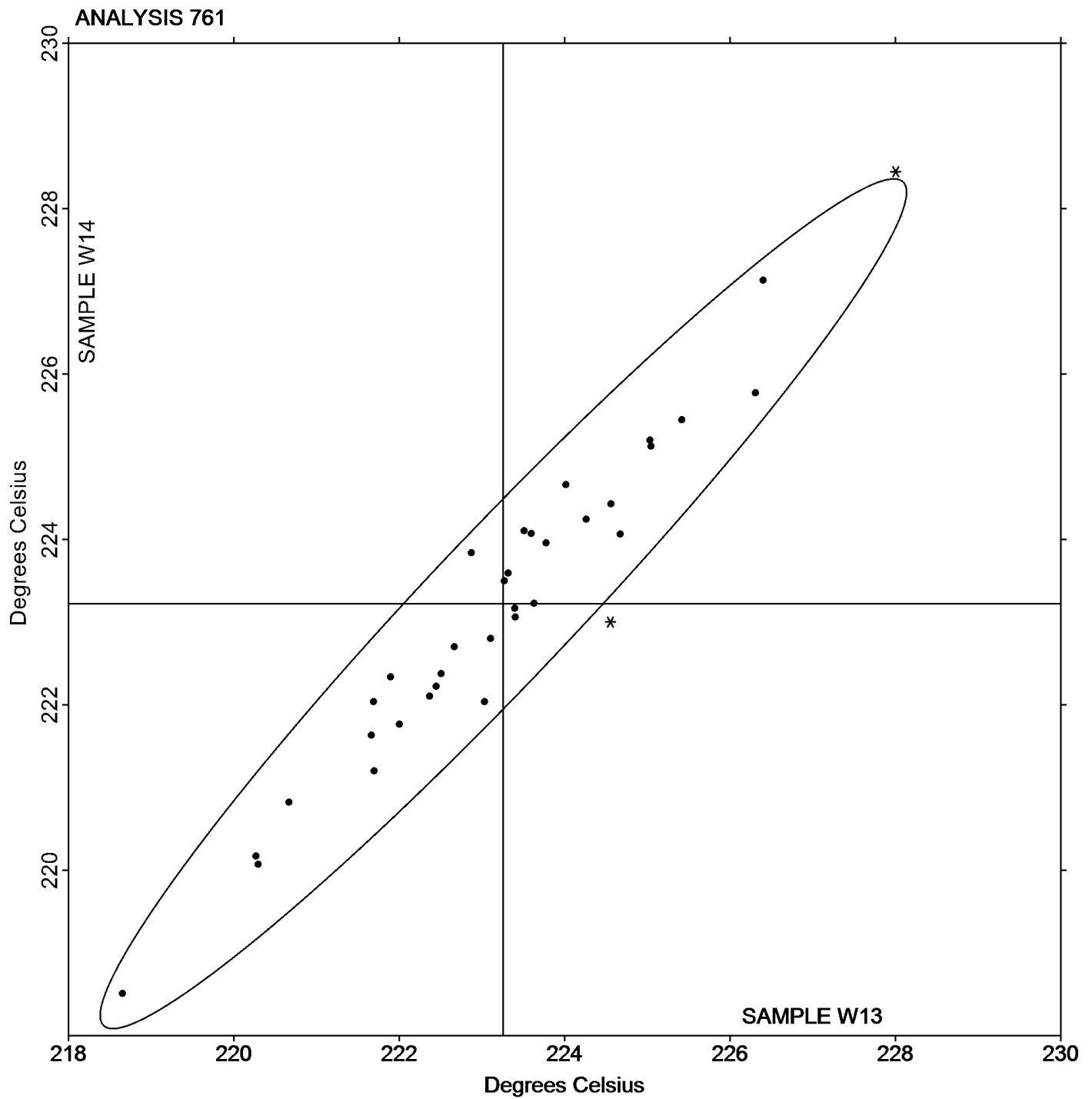
# Plastics Interlaboratory Testing Program

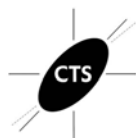
Analysis 761  
DSC Melt Temperature

Report #136

4th Qtr 2025

Grand Mean Sample W13: 223.26 Degrees Celsius    Grand Mean Sample W14: 223.22 Degrees Celsius





# Plastics Interlaboratory Testing Program

## Analysis 762

### DSC Enthalpy of Crystallization

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample W13 |                      |       | Sample W14 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 7M37RN  |           | 46.02      | 0.03                 | 0.01  | 44.40      | -1.48                | -0.53 | NZ         |
| 7ZQBX Y |           | 45.95      | -0.04                | -0.01 | 43.07      | -2.81                | -1.01 | TA         |
| 887BUM  |           | 49.69      | 3.70                 | 1.16  | 49.40      | 3.52                 | 1.27  | TA         |
| 8QWMHM  |           | 45.93      | -0.06                | -0.02 | 47.44      | 1.56                 | 0.56  | TA         |
| AHEV6U  |           | 48.91      | 2.92                 | 0.91  | 48.52      | 2.64                 | 0.95  | TA         |
| DWGTGG  |           | 48.41      | 2.42                 | 0.76  | 48.17      | 2.29                 | 0.82  | TA         |
| DYT9BG  | X         | 75.74      | 29.75                | 9.33  | 72.51      | 26.63                | 9.60  | TA         |
| FHU6H3  |           | 50.49      | 4.50                 | 1.41  | 49.31      | 3.43                 | 1.24  | NZ         |
| JG67TU  |           | 45.23      | -0.76                | -0.24 | 45.60      | -0.28                | -0.10 | NZ         |
| KCQRNZ  |           | 50.32      | 4.33                 | 1.36  | 46.03      | 0.15                 | 0.05  | PE         |
| LX7UZB  |           | 42.71      | -3.28                | -1.03 | 43.04      | -2.84                | -1.02 | TA         |
| LZWXQW  |           | 44.59      | -1.40                | -0.44 | 45.21      | -0.67                | -0.24 | SH         |
| MGYT24  | *         | 39.85      | -6.14                | -1.93 | 44.38      | -1.50                | -0.54 | TA         |
| MHAUN2  |           | 41.84      | -4.15                | -1.30 | 41.88      | -4.00                | -1.44 | TA         |
| MUZNXA  |           | 46.35      | 0.36                 | 0.11  | 46.87      | 0.99                 | 0.36  | MT         |
| N3UY4Y  |           | 52.00      | 6.01                 | 1.89  | 51.27      | 5.39                 | 1.94  | TA         |
| P36H22  |           | 42.57      | -3.42                | -1.07 | 43.69      | -2.19                | -0.79 | NZ         |
| RUQD6M  |           | 41.70      | -4.29                | -1.34 | 40.78      | -5.10                | -1.84 | PE         |
| TNEKUN  |           | 45.90      | -0.09                | -0.03 | 45.69      | -0.19                | -0.07 | TA         |
| UAAM6U  |           | 45.50      | -0.49                | -0.15 | 44.82      | -1.06                | -0.38 | TA         |
| UUG66X  | X         | 93.42      | 47.43                | 14.88 | 52.05      | 6.17                 | 2.23  | TA         |
| VMHTVM  |           | 43.29      | -2.70                | -0.85 | 43.71      | -2.17                | -0.78 | TA         |
| Y679PU  |           | 47.95      | 1.96                 | 0.62  | 50.24      | 4.36                 | 1.57  | TA         |
| ZH2B3J  |           | 46.60      | 0.61                 | 0.19  | 45.83      | -0.05                | -0.02 | TA         |

#### Summary Statistics

##### Sample W13

##### Sample W14

#### Grand Means

45.991 Joules Per Gram

45.880 Joules Per Gram

#### Std Dev Btwn Labs

3.187 Joules Per Gram

2.773 Joules Per Gram

Statistics based on 22 of 24 reporting participants

Sample W13: PBT & Sample W14: PBT

#### Comments on Assigned Data Flags for Test #762

DYT9BG (X) - Data for both samples are high.

UUG66X (X) - Extreme data for sample W13. Inconsistent within the determinations of both samples.



## Plastics Interlaboratory Testing Program

### Analysis 762

#### DSC Enthalpy of Crystallization

Report #136

4th Qtr 2025

#### Key to Instrument Codes Reported by Participants

MT Mettler Toledo Instruments

NZ Netzsch Instruments

PE Perkins Elmer Instruments

SH Shimadzu

TA TA Instruments



# Plastics Interlaboratory Testing Program

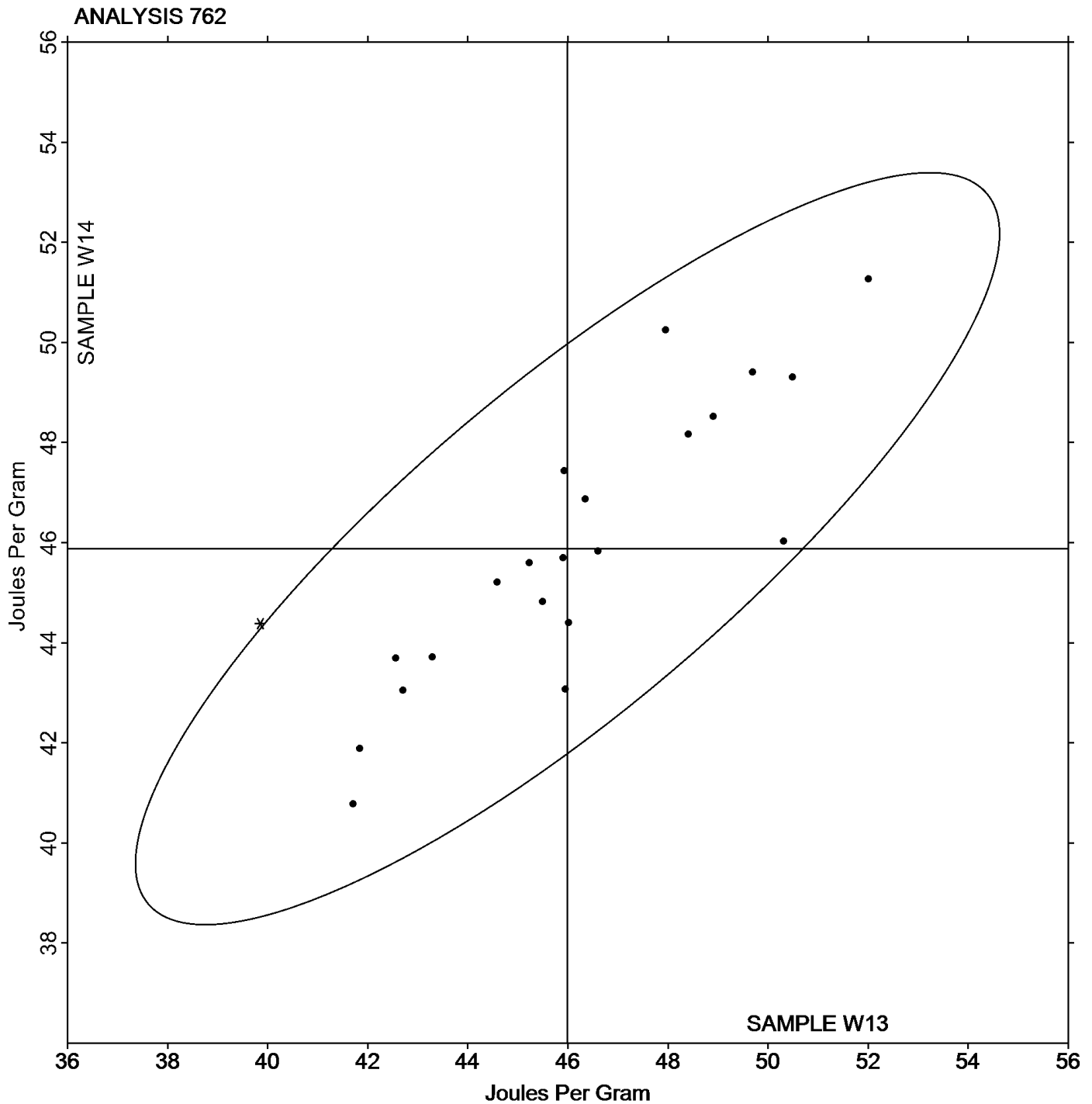
Analysis 762

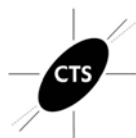
DSC Enthalpy of Crystallization

Report #136

4th Qtr 2025

Grand Mean Sample W13: 45.991 Joules Per Gram    Grand Mean Sample W14: 45.880 Joules Per Gram





# Plastics Interlaboratory Testing Program

## Analysis 763

### DSC Enthalpy of Fusion

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample W13 |                      |       | Sample W14 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 7M37RN  |           | 38.41      | -3.10                | -0.66 | 37.36      | -4.82                | -1.07 | NZ         |
| 7ZQBX Y |           | 43.31      | 1.80                 | 0.38  | 45.23      | 3.05                 | 0.67  | TA         |
| 887BUM  |           | 43.17      | 1.66                 | 0.36  | 43.23      | 1.04                 | 0.23  | TA         |
| 8QWMHM  |           | 44.81      | 3.30                 | 0.70  | 46.04      | 3.85                 | 0.85  | TA         |
| AHEV6U  |           | 46.71      | 5.20                 | 1.11  | 46.69      | 4.50                 | 1.00  | TA         |
| DWGTGG  |           | 40.07      | -1.44                | -0.31 | 41.00      | -1.18                | -0.26 | TA         |
| DYT9BG  | X         | 74.27      | 32.76                | 7.00  | 73.41      | 31.23                | 6.91  | TA         |
| FHU6H3  |           | 52.11      | 10.60                | 2.27  | 52.42      | 10.23                | 2.27  | NZ         |
| JG67TU  |           | 40.23      | -1.28                | -0.27 | 40.79      | -1.39                | -0.31 | NZ         |
| KCQRNZ  |           | 39.95      | -1.56                | -0.33 | 41.13      | -1.05                | -0.23 | PE         |
| LX7UZB  |           | 37.81      | -3.70                | -0.79 | 38.18      | -4.00                | -0.89 | TA         |
| LZWXQW  |           | 43.21      | 1.70                 | 0.36  | 44.11      | 1.92                 | 0.43  | SH         |
| MGYT24  | *         | 34.69      | -6.82                | -1.46 | 38.65      | -3.54                | -0.78 | TA         |
| MHAUN2  |           | 35.79      | -5.72                | -1.22 | 34.83      | -7.35                | -1.63 | TA         |
| MUZNXA  |           | 38.71      | -2.80                | -0.60 | 40.80      | -1.38                | -0.31 | MT         |
| N3UY4Y  |           | 47.06      | 5.54                 | 1.18  | 46.79      | 4.60                 | 1.02  | TA         |
| P36H22  |           | 42.88      | 1.37                 | 0.29  | 44.27      | 2.09                 | 0.46  | NZ         |
| RUQD6M  |           | 35.92      | -5.59                | -1.19 | 36.29      | -5.90                | -1.31 | PE         |
| TNEKUN  |           | 35.42      | -6.09                | -1.30 | 35.29      | -6.89                | -1.53 | TA         |
| UAAM6U  |           | 45.87      | 4.36                 | 0.93  | 45.47      | 3.29                 | 0.73  | TA         |
| UUG66X  | X         | 39.57      | -1.95                | -0.42 | 129.37     | 87.18                | 19.30 | TA         |
| VMHTVM  |           | 36.53      | -4.98                | -1.06 | 39.26      | -2.93                | -0.65 | TA         |
| Y679PU  |           | 47.65      | 6.14                 | 1.31  | 48.11      | 5.92                 | 1.31  | TA         |
| ZH2B3J  |           | 42.92      | 1.41                 | 0.30  | 42.14      | -0.05                | -0.01 | TA         |

#### Summary Statistics

##### Sample W13

##### Sample W14

#### Grand Means

41.511 Joules Per Gram

42.186 Joules Per Gram

#### Stnd Dev Btwn Labs

4.680 Joules Per Gram

4.516 Joules Per Gram

Statistics based on 22 of 24 reporting participants

Sample W13: PBT & Sample W14: PBT

#### Comments on Assigned Data Flags for Test #763

DYT9BG (X) - Data for both samples are high.

UUG66X (X) - Extreme data for sample W14.



**Plastics Interlaboratory Testing Program**  
**Analysis 763**  
**DSC Enthalpy of Fusion**

**Report #136**  
**4th Qtr 2025**

**Key to Instrument Codes Reported by Participants**

|           |                            |           |                     |
|-----------|----------------------------|-----------|---------------------|
| <b>MT</b> | Mettler Toledo Instruments | <b>NZ</b> | Netzsch Instruments |
| <b>PE</b> | Perkins Elmer Instruments  | <b>SH</b> | Shimadzu            |
| <b>TA</b> | TA Instruments             |           |                     |



# Plastics Interlaboratory Testing Program

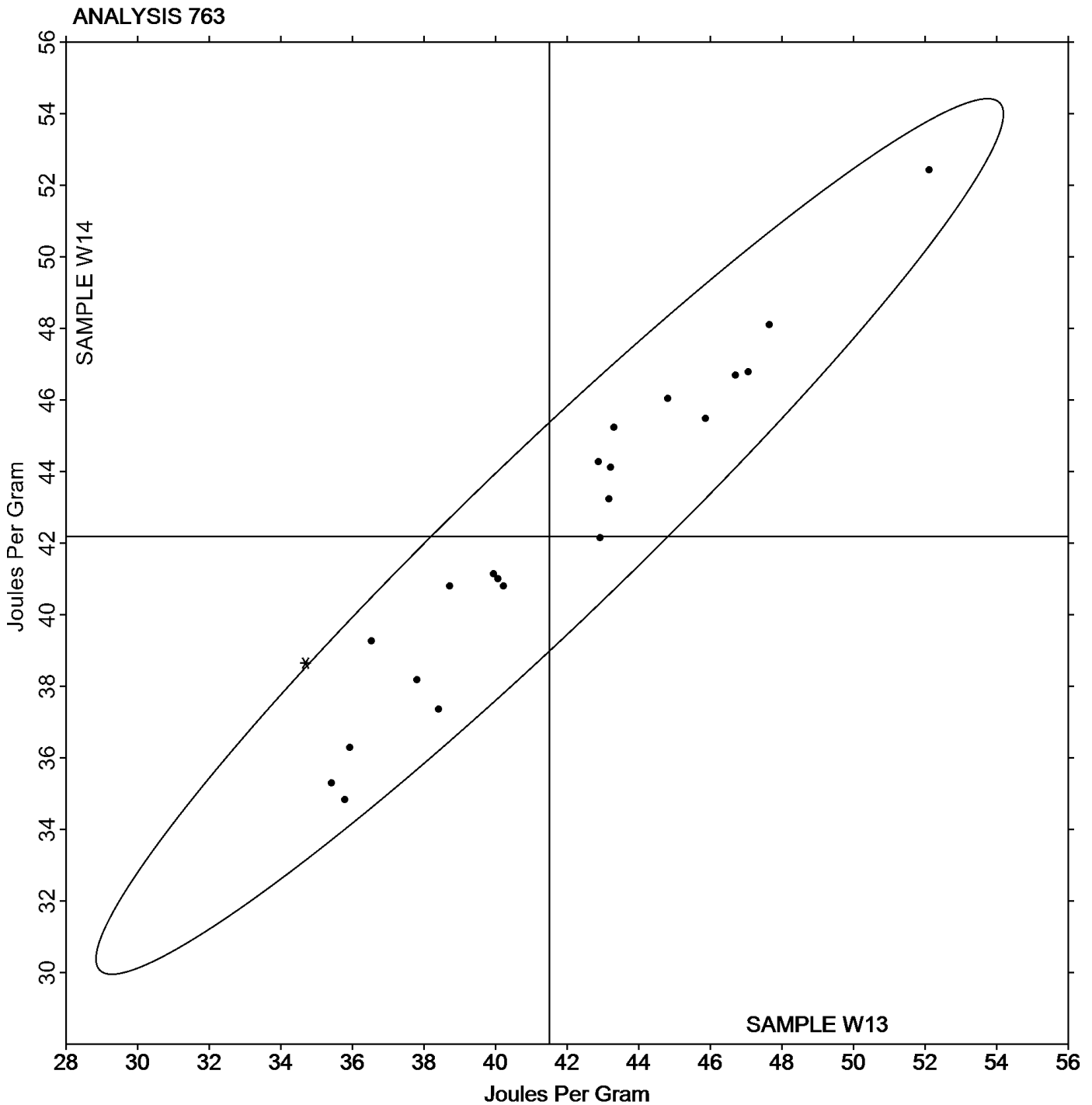
Analysis 763

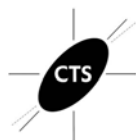
DSC Enthalpy of Fusion

Report #136

4th Qtr 2025

Grand Mean Sample W13: 41.511 Joules Per Gram    Grand Mean Sample W14: 42.186 Joules Per Gram





# Plastics Interlaboratory Testing Program

## Analysis 764

### DSC Glass Transition Temperature

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample V13 |                      |       | Sample V14 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 3VKP9Q  |           | 83.86      | 2.85                 | 1.49  | 83.70      | 2.66                 | 1.36  | TA         |
| 6WANPL  |           | 81.37      | 0.36                 | 0.19  | 81.52      | 0.49                 | 0.25  | TA         |
| 7M37RN  |           | 81.67      | 0.66                 | 0.34  | 81.43      | 0.40                 | 0.20  | NZ         |
| 7ZQBXY  |           | 78.82      | -2.19                | -1.14 | 79.04      | -2.00                | -1.02 | TA         |
| 887BUM  | *         | 75.72      | -5.29                | -2.76 | 76.05      | -4.99                | -2.54 | TA         |
| 8QWMHM  |           | 81.34      | 0.33                 | 0.17  | 80.85      | -0.19                | -0.09 | TA         |
| AHEV6U  |           | 82.81      | 1.80                 | 0.94  | 82.58      | 1.55                 | 0.79  | TA         |
| CRRWEK  |           | 80.83      | -0.18                | -0.10 | 80.57      | -0.46                | -0.24 | TA         |
| DWGTGG  |           | 81.83      | 0.82                 | 0.43  | 82.23      | 1.20                 | 0.61  | TA         |
| DYT9BG  |           | 81.90      | 0.89                 | 0.46  | 82.70      | 1.66                 | 0.85  | TA         |
| FFNMJ8  |           | 79.40      | -1.61                | -0.84 | 78.99      | -2.05                | -1.04 | TA         |
| FHU6H3  |           | 81.07      | 0.06                 | 0.03  | 81.00      | -0.04                | -0.02 | NZ         |
| HKD2YR  |           | 78.57      | -2.44                | -1.28 | 78.91      | -2.13                | -1.08 | TA         |
| JG67TU  |           | 82.60      | 1.59                 | 0.83  | 82.43      | 1.40                 | 0.71  | NZ         |
| KCQRNZ  | *         | 79.27      | -1.74                | -0.91 | 78.26      | -2.78                | -1.41 | PE         |
| LR4KTH  | X         | 75.09      | -5.92                | -3.09 | 73.76      | -7.28                | -3.70 | SH         |
| LX7UZH  |           | 81.83      | 0.82                 | 0.43  | 81.93      | 0.90                 | 0.46  | TA         |
| LZWXQW  |           | 83.23      | 2.22                 | 1.16  | 83.66      | 2.62                 | 1.33  | SH         |
| MGYT24  |           | 82.10      | 1.09                 | 0.57  | 81.47      | 0.43                 | 0.22  | TA         |
| MHAUN2  |           | 79.57      | -1.44                | -0.75 | 80.36      | -0.67                | -0.34 | TA         |
| MUZNXA  |           | 82.21      | 1.20                 | 0.62  | 81.76      | 0.72                 | 0.37  | MT         |
| N3UY4Y  |           | 80.76      | -0.25                | -0.13 | 81.15      | 0.11                 | 0.06  | TA         |
| P36H22  |           | 83.23      | 2.22                 | 1.16  | 83.17      | 2.13                 | 1.08  | NZ         |
| RUQD6M  |           | 82.00      | 0.99                 | 0.52  | 82.37      | 1.33                 | 0.68  | PE         |
| TNEKUN  |           | 82.64      | 1.63                 | 0.85  | 82.92      | 1.89                 | 0.96  | TA         |
| UAAM6U  |           | 81.82      | 0.81                 | 0.42  | 82.12      | 1.09                 | 0.55  | TA         |
| UL6WQH  |           | 83.21      | 2.20                 | 1.15  | 83.69      | 2.65                 | 1.35  | TA         |
| UUG66X  |           | 79.62      | -1.39                | -0.73 | 79.57      | -1.47                | -0.75 | TA         |
| VH3FUZ  |           | 76.23      | -4.78                | -2.49 | 76.13      | -4.90                | -2.49 | MT         |
| VMHTVM  |           | 80.40      | -0.61                | -0.32 | 80.05      | -0.99                | -0.50 | TA         |
| Y679PU  |           | 80.80      | -0.21                | -0.11 | 80.97      | -0.07                | -0.04 | TA         |
| ZH2B3J  |           | 80.65      | -0.36                | -0.19 | 80.51      | -0.52                | -0.27 | TA         |



# Plastics Interlaboratory Testing Program

## Analysis 764

### DSC Glass Transition Temperature

Report #136

4th Qtr 2025

#### Summary Statistics

##### Sample V13

##### Sample V14

#### Grand Means

81.011 Degrees Celsius

81.036 Degrees Celsius

#### Stnd Dev Btwn Labs

1.917 Degrees Celsius

1.966 Degrees Celsius

Statistics based on 31 of 32 reporting participants

Sample V13: PET & Sample V14: PET

#### Comments on Assigned Data Flags for Test #764

LR4KTH (X) - Data for both samples are low. Possible Systematic Error.

#### Key to Instrument Codes Reported by Participants

MT Mettler Toledo Instruments

NZ Netzsch Instruments

PE Perkins Elmer Instruments

SH Shimadzu

TA TA Instruments



# Plastics Interlaboratory Testing Program

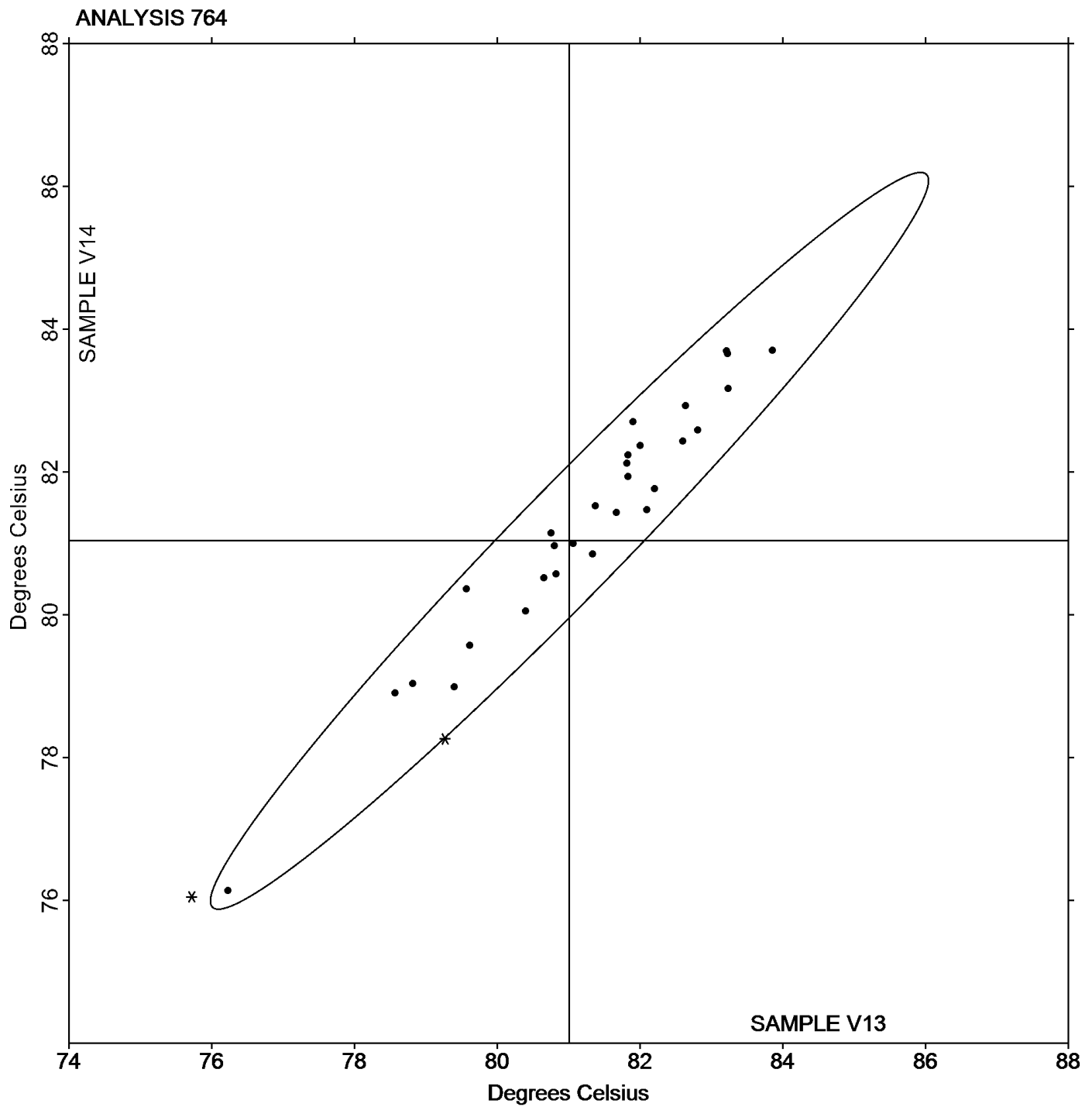
Analysis 764

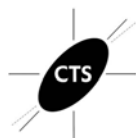
DSC Glass Transition Temperature

Report #136

4th Qtr 2025

Grand Mean Sample V13: 81.011 Degrees Celsius    Grand Mean Sample V14: 81.036 Degrees Celsius





# Plastics Interlaboratory Testing Program

## Analysis 765

### Research Crystallization Peak Temperature

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample W13 |                      |       | Sample W14 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 2HJMJ4  |           | 170.17     | -3.19                | -0.77 | 169.27     | -3.47                | -0.77 | TA         |
| AHEV6U  |           | 173.00     | -0.35                | -0.08 | 173.15     | 0.41                 | 0.09  | TA         |
| DYT9BG  |           | 180.97     | 7.61                 | 1.83  | 181.47     | 8.73                 | 1.95  | TA         |
| KCQRNZ  |           | 168.09     | -5.27                | -1.27 | 167.92     | -4.82                | -1.08 | XX         |
| LZWXQW  |           | 173.15     | -0.21                | -0.05 | 173.60     | 0.86                 | 0.19  | SH         |
| MHAUN2  |           | 173.48     | 0.13                 | 0.03  | 173.05     | 0.31                 | 0.07  | TA         |
| UAAM6U  |           | 178.07     | 4.72                 | 1.14  | 177.63     | 4.90                 | 1.09  | TA         |
| UUG66X  | X         | 222.49     | 49.14                | 11.82 | 223.52     | 50.78                | 11.34 | TA         |
| VMHTVM  |           | 174.27     | 0.91                 | 0.22  | 169.40     | -3.34                | -0.75 | TA         |
| ZH2B3J  |           | 168.98     | -4.37                | -1.05 | 169.15     | -3.59                | -0.80 | TA         |

#### Summary Statistics

##### Grand Means

##### Sample W13

173.352 Degrees Celsius

##### Sample W14

172.737 Degrees Celsius

##### Std Dev Btwn Labs

4.157 Degrees Celsius

4.478 Degrees Celsius

Statistics based on 9 of 10 reporting participants

Sample W13: PBT & Sample W14: PBT

#### Comments on Assigned Data Flags for Test #765

UUG66X (X) - Data for both samples are high. Inconsistent within the determinations of sample W14.

#### Key to Instrument Codes Reported by Participants

SH Shimadzu

TA TA Instruments

XX Instrument manufacturer not specified by lab



# Plastics Interlaboratory Testing Program

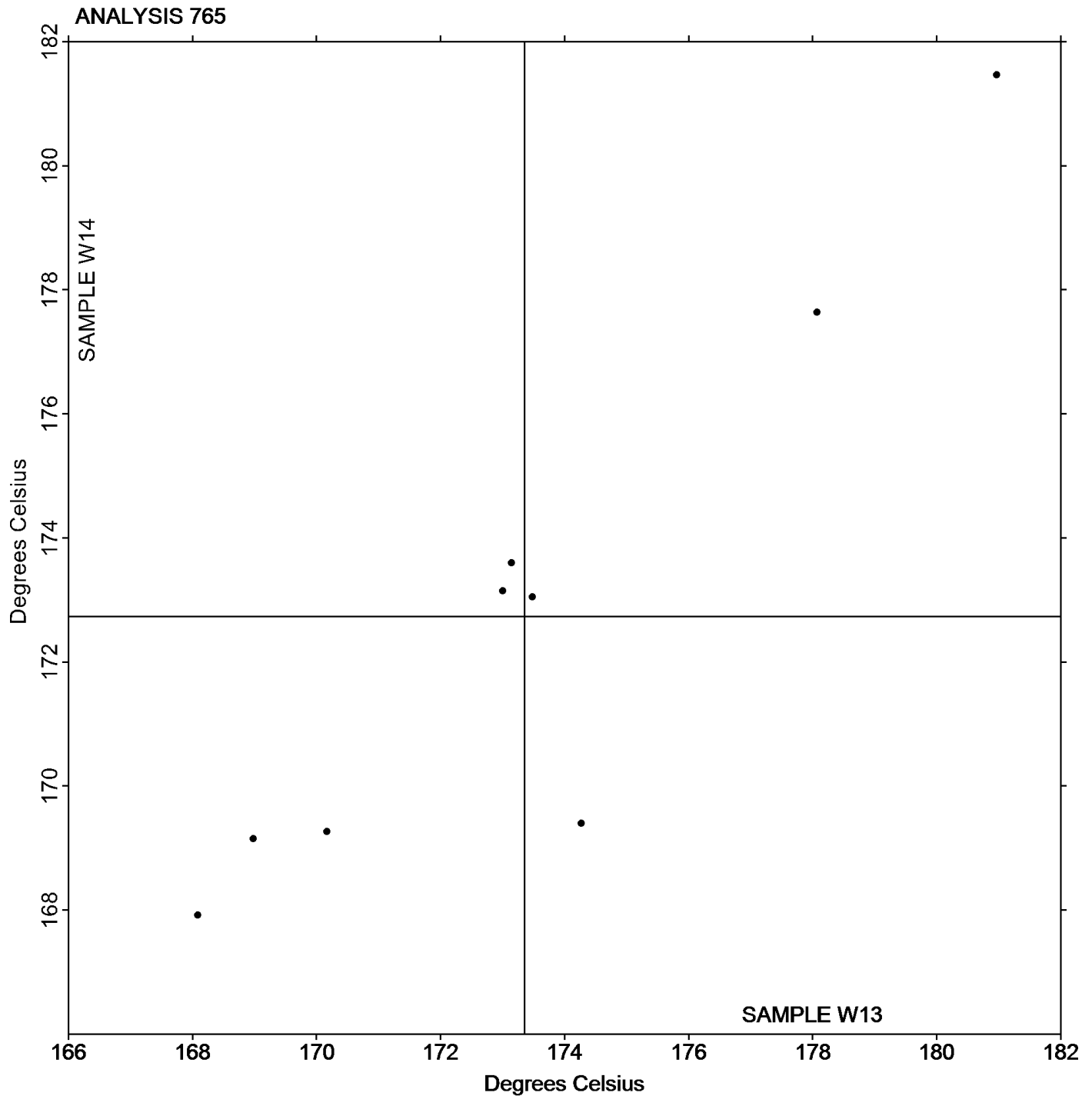
Analysis 765

Research Crystallization Peak Temperature

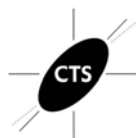
Report #136

4th Qtr 2025

Grand Mean Sample W13: 173.35 Degrees Celsius    Grand Mean Sample W14: 172.74 Degrees Celsius



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot.



# Plastics Interlaboratory Testing Program

## Analysis 766

### Research Melting Peak Temperature

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample W13 |                      |       | Sample W14 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 2HJMJ4  |           | 222.77     | -0.90                | -0.31 | 223.10     | -0.51                | -0.16 | TA         |
| 36CUP7  |           | 223.63     | -0.04                | -0.01 | 223.22     | -0.39                | -0.12 | TA         |
| AHEV6U  |           | 222.45     | -1.22                | -0.42 | 222.22     | -1.39                | -0.45 | TA         |
| DYT9BG  |           | 223.20     | -0.47                | -0.16 | 222.27     | -1.34                | -0.43 | XX         |
| KCQRNZ  |           | 218.65     | -5.02                | -1.71 | 218.51     | -5.10                | -1.65 | XX         |
| LZWXQW  |           | 228.77     | 5.10                 | 1.74  | 229.15     | 5.54                 | 1.79  | SH         |
| MHAUN2  |           | 223.51     | -0.16                | -0.05 | 224.10     | 0.49                 | 0.16  | TA         |
| UAAM6U  |           | 228.00     | 4.33                 | 1.48  | 228.45     | 4.84                 | 1.56  | TA         |
| UUG66X  |           | 225.97     | 2.30                 | 0.79  | 225.46     | 1.85                 | 0.60  | XX         |
| VMHTVM  |           | 221.70     | -1.97                | -0.67 | 221.20     | -2.41                | -0.78 | TA         |
| ZH2B3J  |           | 221.69     | -1.98                | -0.68 | 222.04     | -1.57                | -0.51 | TA         |

#### Summary Statistics

##### Grand Means

Sample W13  
223.668 Degrees Celsius

Sample W14  
223.610 Degrees Celsius

##### Std Dev Btwn Labs

2.926 Degrees Celsius

3.102 Degrees Celsius

Statistics based on 11 of 11 reporting participants

Sample W13: PBT & Sample W14: PBT

#### Key to Instrument Codes Reported by Participants

SH Shimadzu

TA TA Instruments

XX Instrument manufacturer not specified by lab



# Plastics Interlaboratory Testing Program

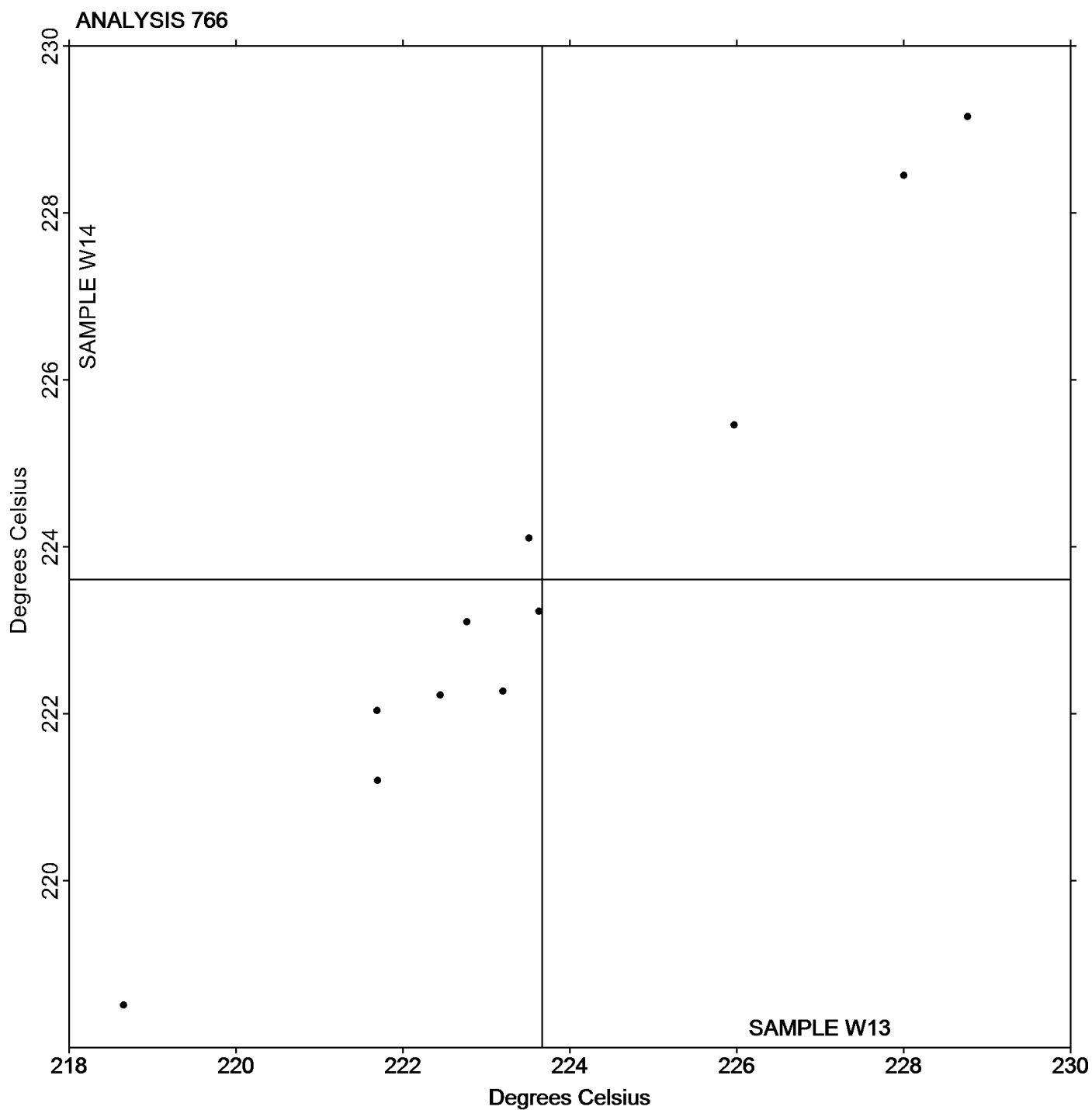
Analysis 766

Research Melting Peak Temperature

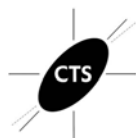
Report #136

4th Qtr 2025

Grand Mean Sample W13: 223.67 Degrees Celsius    Grand Mean Sample W14: 223.61 Degrees Celsius



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot.



# Plastics Interlaboratory Testing Program

## Analysis 767

### Research Heat of Crystallization

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample W13 |                      |       | Sample W14 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 2HJMJ4  |           | 51.57      | 5.25                 | 1.56  | 52.47      | 6.00                 | 1.73  | TA         |
| AHEV6U  |           | 48.91      | 2.59                 | 0.77  | 48.52      | 2.06                 | 0.59  | TA         |
| DYT9BG  | X         | 75.34      | 29.02                | 8.64  | 72.51      | 26.05                | 7.51  | XX         |
| LZWXQW  |           | 44.59      | -1.73                | -0.51 | 45.21      | -1.25                | -0.36 | SH         |
| MHAUN2  |           | 41.84      | -4.47                | -1.33 | 41.88      | -4.58                | -1.32 | TA         |
| UAAM6U  |           | 47.41      | 1.09                 | 0.33  | 47.61      | 1.14                 | 0.33  | TA         |
| VMHTVM  |           | 43.29      | -3.03                | -0.90 | 43.71      | -2.75                | -0.79 | TA         |
| ZH2B3J  |           | 46.60      | 0.29                 | 0.09  | 45.83      | -0.64                | -0.18 | TA         |

#### Summary Statistics

##### Grand Means

##### Sample W13

46.315 Joules Per Gram

##### Sample W14

46.462 Joules Per Gram

##### Std Dev Btwn Labs

3.359 Joules Per Gram

3.466 Joules Per Gram

Statistics based on 7 of 8 reporting participants

Sample W13: PBT & Sample W14: PBT

#### Comments on Assigned Data Flags for Test #767

DYT9BG (X) - Data for both samples are high.

#### Key to Instrument Codes Reported by Participants

SH Shimadzu

TA TA Instruments

XX Instrument manufacturer not specified by lab



# Plastics Interlaboratory Testing Program

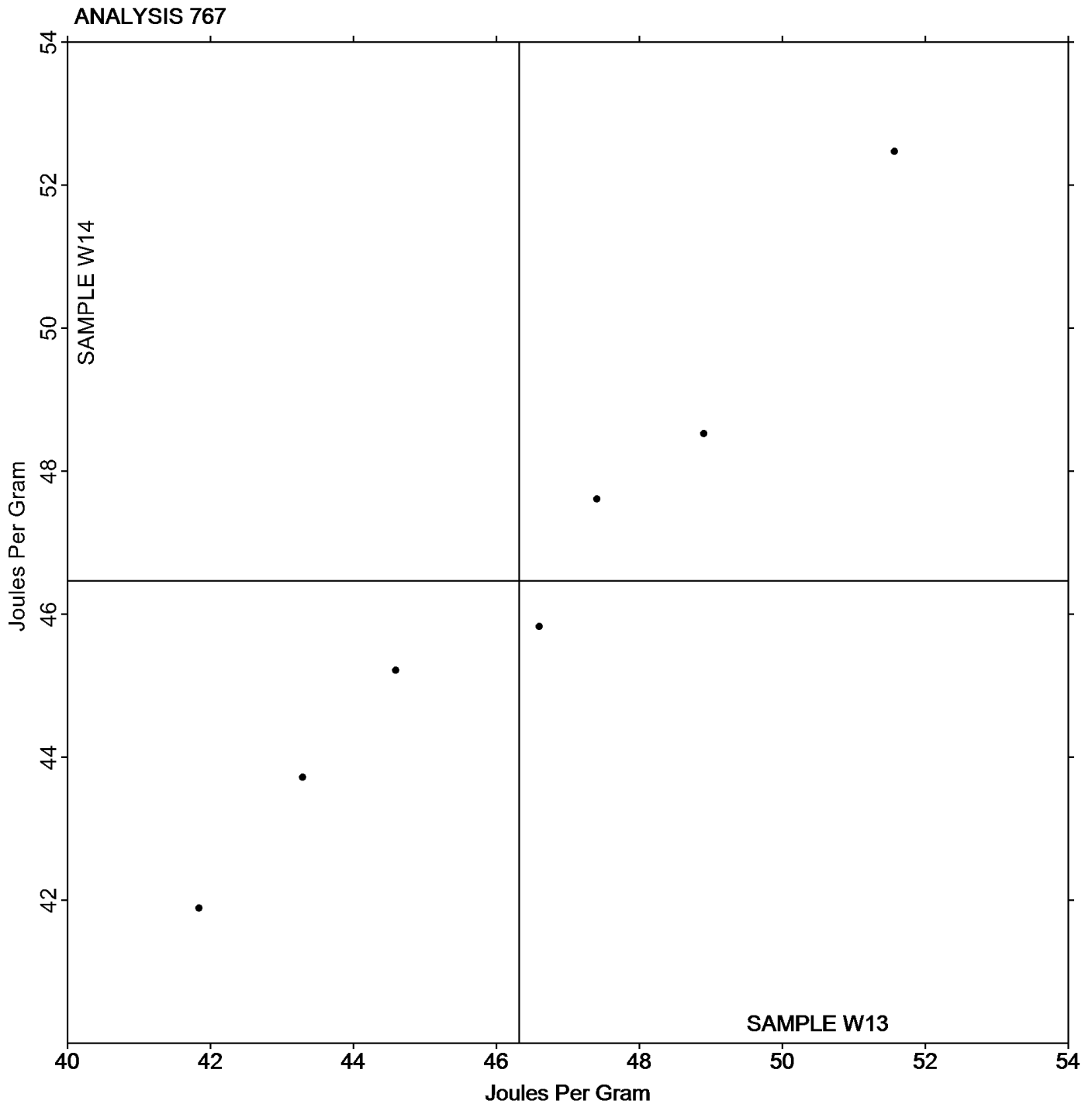
Analysis 767

Research Heat of Crystallization

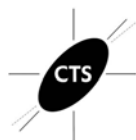
Report #136

4th Qtr 2025

Grand Mean Sample W13: 46.315 Joules Per Gram    Grand Mean Sample W14: 46.462 Joules Per Gram



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot.



# Plastics Interlaboratory Testing Program

## Analysis 768

### Research Heat of Fusion

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample W13 |                      |       | Sample W14 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 2HJMJ4  |           | 44.17      | 2.02                 | 0.45  | 43.73      | 1.54                 | 0.37  | TA         |
| AHEV6U  |           | 46.71      | 4.56                 | 1.02  | 46.69      | 4.49                 | 1.07  | TA         |
| DYT9BG  | X         | 74.42      | 32.28                | 7.24  | 74.19      | 32.00                | 7.65  | TA         |
| LZWXQW  |           | 42.07      | -0.07                | -0.02 | 42.09      | -0.10                | -0.03 | SH         |
| MHAUN2  |           | 35.79      | -6.35                | -1.42 | 34.83      | -7.36                | -1.76 | TA         |
| UAAM6U  |           | 46.84      | 4.70                 | 1.05  | 46.62      | 4.43                 | 1.06  | TA         |
| VMHTVM  |           | 36.53      | -5.61                | -1.26 | 39.26      | -2.94                | -0.70 | XX         |
| ZH2B3J  |           | 42.92      | 0.77                 | 0.17  | 42.14      | -0.05                | -0.01 | TA         |

#### Summary Statistics

##### Grand Means

##### Sample W13

42.148 Joules Per Gram

##### Sample W14

42.195 Joules Per Gram

##### Std Dev Btwn Labs

4.461 Joules Per Gram

4.183 Joules Per Gram

Statistics based on 7 of 8 reporting participants

Sample W13: PBT & Sample W14: PBT

#### Comments on Assigned Data Flags for Test #768

DYT9BG (X) - Data for both samples are high.

#### Key to Instrument Codes Reported by Participants

SH Shimadzu

TA TA Instruments

XX Instrument manufacturer not specified by lab



# Plastics Interlaboratory Testing Program

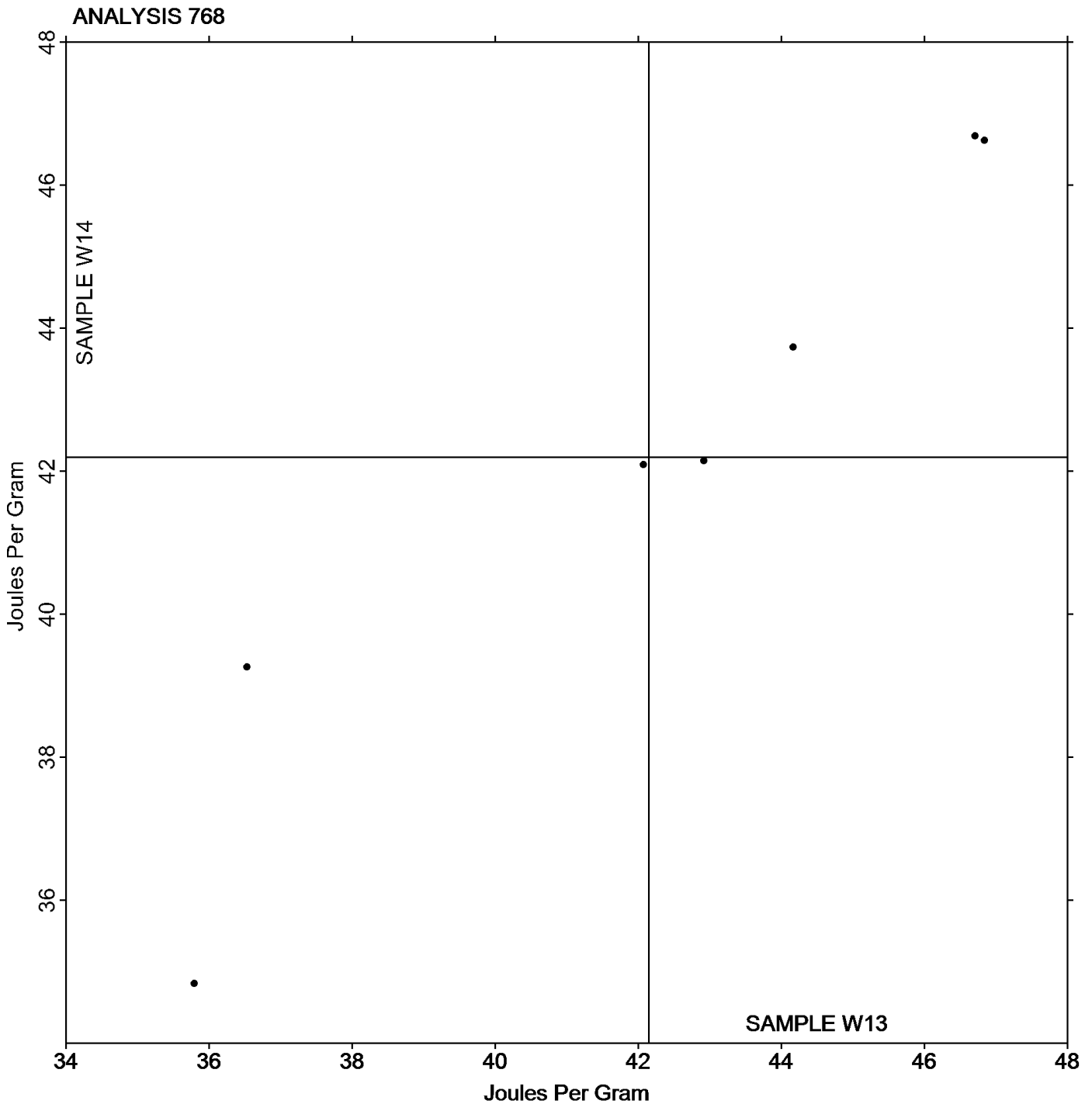
Analysis 768

Research Heat of Fusion

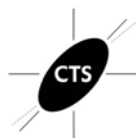
Report #136

4th Qtr 2025

Grand Mean Sample W13: 42.148 Joules Per Gram    Grand Mean Sample W14: 42.195 Joules Per Gram



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot.



# Plastics Interlaboratory Testing Program

## Analysis 769

### Research Glass Transition Temperature

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample V13 |                      |       | Sample V14 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 2HJMJ4  |           | 81.97      | 0.21                 | 0.15  | 82.03      | 0.09                 | 0.06  | TA         |
| AHEV6U  |           | 82.81      | 1.06                 | 0.72  | 82.58      | 0.64                 | 0.44  | TA         |
| DYT9BG  |           | 82.43      | 0.68                 | 0.46  | 82.40      | 0.46                 | 0.31  | XX         |
| LZWXQW  |           | 82.10      | 0.35                 | 0.24  | 82.84      | 0.89                 | 0.61  | SH         |
| MHAUN2  |           | 79.57      | -2.19                | -1.48 | 80.36      | -1.58                | -1.09 | TA         |
| UAAM6U  |           | 81.34      | -0.42                | -0.28 | 82.07      | 0.12                 | 0.08  | TA         |
| UUG66X  |           | 84.51      | 2.76                 | 1.87  | 84.65      | 2.70                 | 1.86  | TA         |
| VMHTVM  |           | 80.40      | -1.36                | -0.92 | 80.05      | -1.89                | -1.30 | TA         |
| ZH2B3J  |           | 80.65      | -1.10                | -0.75 | 80.51      | -1.43                | -0.98 | TA         |

#### Summary Statistics

##### Grand Means

##### Sample V13

81.753 Degrees Celsius

##### Sample V14

81.944 Degrees Celsius

##### Stnd Dev Btwn Labs

1.473 Degrees Celsius

1.452 Degrees Celsius

Statistics based on 9 of 9 reporting participants

Sample V13: PET & Sample V14: PET

#### Key to Instrument Codes Reported by Participants

SH Shimadzu

TA TA Instruments

XX Instrument manufacturer not specified by lab



# Plastics Interlaboratory Testing Program

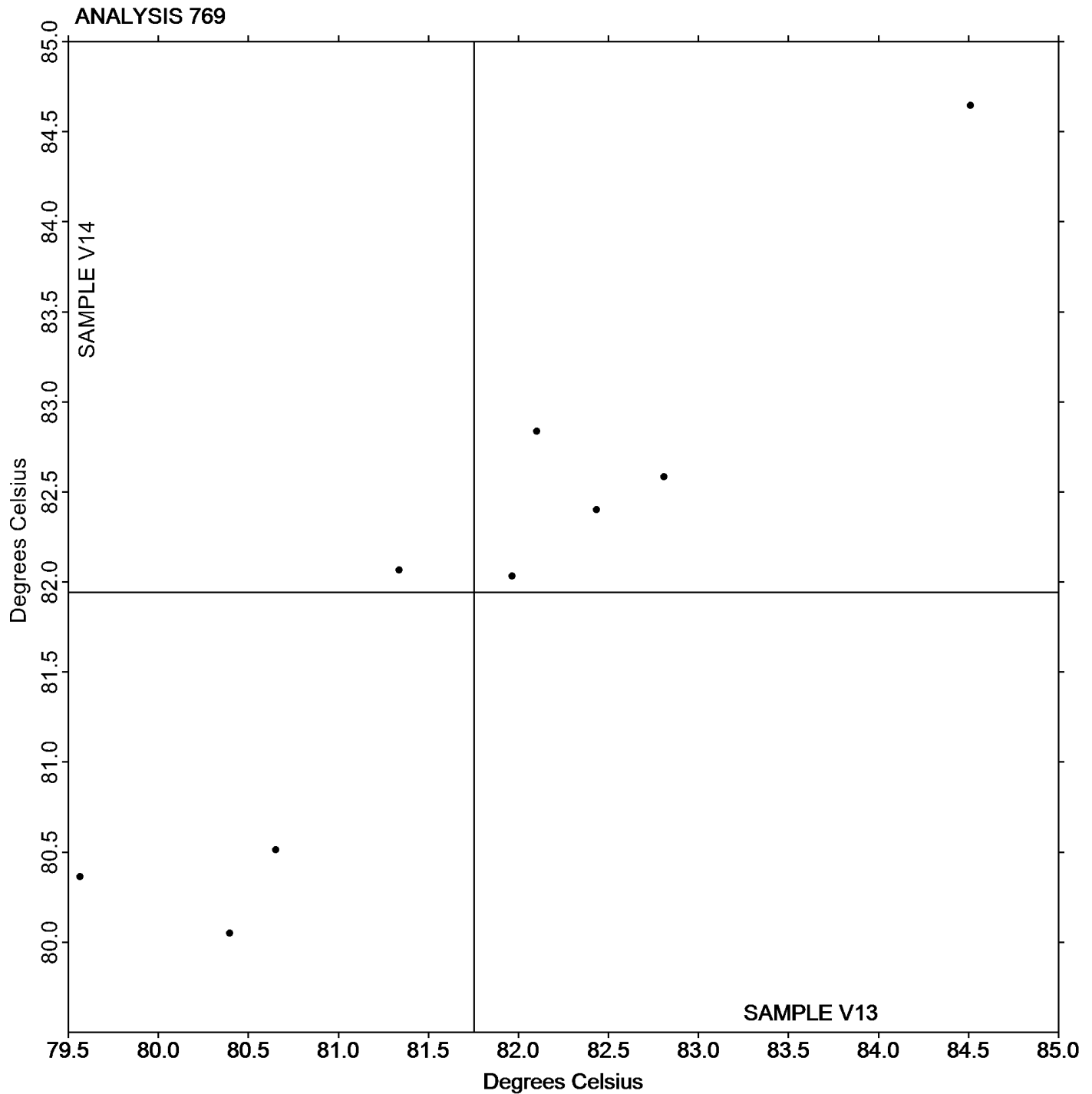
Analysis 769

Research Glass Transition Temperature

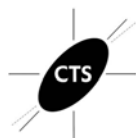
Report #136

4th Qtr 2025

Grand Mean Sample V13: 81.753 Degrees Celsius    Grand Mean Sample V14: 81.944 Degrees Celsius



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot.



# Plastics Interlaboratory Testing Program

## Analysis 770

### Tensile Stress at Yield, Film Samples - psi

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample B13 |                      |       | Sample B14 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 2HJMJ4  |           | 1,871      | -39                  | -0.21 | 1,818      | -48                  | -0.36 | IN         |
| 36QHGX  |           | 1,902      | -7                   | -0.04 | 1,891      | 25                   | 0.19  | IN         |
| 3AM886  |           | 2,270      | 360                  | 1.99  | 2,055      | 189                  | 1.44  | MT         |
| 4JKEDN  |           | 1,912      | 3                    | 0.01  | 1,842      | -24                  | -0.18 | IM         |
| 4NGWZF  |           | 2,196      | 286                  | 1.58  | 2,088      | 222                  | 1.69  | TH         |
| 7NBH84  |           | 1,770      | -140                 | -0.77 | 1,752      | -114                 | -0.87 | XX         |
| 7ZPDM4  |           | 1,718      | -192                 | -1.06 | 1,819      | -47                  | -0.36 | XX         |
| 8EZGL4  |           | 1,707      | -203                 | -1.12 | 1,695      | -171                 | -1.30 | XX         |
| AZVYT8  |           | 1,447      | -463                 | -2.55 | 1,608      | -258                 | -1.96 | IN         |
| D9UV3E  |           | 1,781      | -128                 | -0.71 | 1,707      | -159                 | -1.21 | IN         |
| DCU7U8  |           | 2,014      | 105                  | 0.58  | 2,050      | 185                  | 1.41  | IN         |
| FAJ429  |           | 2,020      | 111                  | 0.61  | 1,916      | 50                   | 0.38  | WZ         |
| GM886X  |           | 2,008      | 98                   | 0.54  | 1,859      | -6                   | -0.05 | IN         |
| JPMEGQ  |           | 1,731      | -179                 | -0.98 | 1,869      | 4                    | 0.03  | XX         |
| KU9QVJ  |           | 2,022      | 112                  | 0.62  | 1,974      | 108                  | 0.82  | WZ         |
| LR4KTH  |           | 1,988      | 79                   | 0.43  | 1,817      | -48                  | -0.37 | WZ         |
| PUYF3V  |           | 1,908      | -1                   | -0.01 | 1,857      | -9                   | -0.07 | IN         |
| RBEVA3  |           | 2,060      | 150                  | 0.83  | 1,944      | 78                   | 0.60  | IN         |
| TU7RDW  |           | 1,958      | 48                   | 0.27  | 1,782      | -84                  | -0.64 | IN         |
| U9E64T  |           | 1,974      | 64                   | 0.36  | 2,079      | 213                  | 1.62  | MT         |
| ZB6EH3  |           | 1,844      | -66                  | -0.36 | 1,758      | -108                 | -0.82 | IN         |

#### Summary Statistics

##### Grand Means

##### Sample B13

1,909.7 psi

##### Sample B14

1,865.6 psi

##### Stnd Dev Btwn Labs

181.4 psi

131.4 psi

Statistics based on 21 of 21 reporting participants

Sample B13: LDPE & Sample B14: LDPE

#### Key to Instrument Codes Reported by Participants

IM Instru-Met Instruments

IN Instron

MT MTS/Sintech

TH Thwing Albert

WZ Zwick

XX Instrument manufacturer not specified by lab



# Plastics Interlaboratory Testing Program

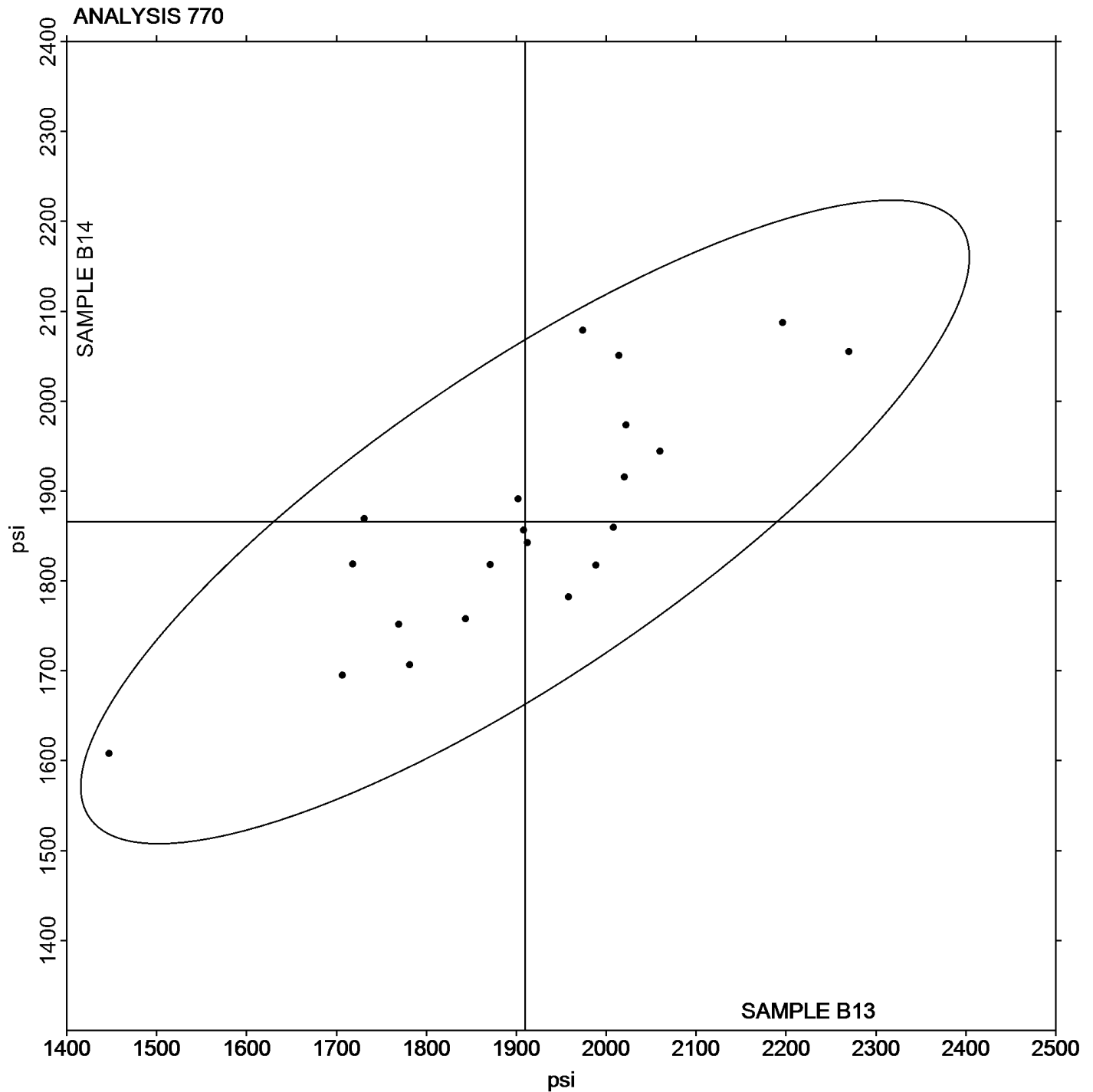
## Analysis 770

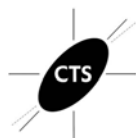
Tensile Stress at Yield, Film Samples - psi

Report #136

4th Qtr 2025

Grand Mean Sample B13: 1,909.71 psi    Grand Mean Sample B14: 1,865.62 psi





# Plastics Interlaboratory Testing Program

## Analysis 771

Report #136

4th Qtr 2025

### Tensile Stress at Break, Film Samples - psi

| WebCode | Data Flag | Sample B13 |                      |       | Sample B14 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 2HJMJ4  |           | 5,468      | 831                  | 0.87  | 5,288      | 732                  | 0.92  | IN         |
| 36QHGX  |           | 2,922      | -1,715               | -1.79 | 2,691      | -1,864               | -2.34 | IN         |
| 3AM886  |           | 5,761      | 1,124                | 1.17  | 5,123      | 567                  | 0.71  | MT         |
| 4JKEDN  |           | 4,080      | -557                 | -0.58 | 3,944      | -612                 | -0.77 | IM         |
| 4NGWZF  |           | 5,649      | 1,011                | 1.06  | 5,431      | 876                  | 1.10  | TH         |
| 7NBH84  |           | 3,654      | -984                 | -1.03 | 3,663      | -893                 | -1.12 | XX         |
| 7ZPDM4  |           | 3,065      | -1,573               | -1.64 | 3,538      | -1,018               | -1.28 | XX         |
| 8EZGL4  |           | 4,312      | -326                 | -0.34 | 4,093      | -463                 | -0.58 | XX         |
| AEEMXY  |           | 3,634      | -1,004               | -1.05 | 4,456      | -99                  | -0.12 | UC         |
| AZVYT8  |           | 4,211      | -426                 | -0.45 | 4,714      | 158                  | 0.20  | IN         |
| D9UV3E  |           | 5,211      | 574                  | 0.60  | 5,400      | 844                  | 1.06  | IN         |
| DCU7U8  |           | 5,403      | 765                  | 0.80  | 5,540      | 985                  | 1.24  | IN         |
| FAJ429  |           | 5,393      | 755                  | 0.79  | 5,053      | 497                  | 0.62  | WZ         |
| GM886X  |           | 5,408      | 771                  | 0.81  | 5,042      | 486                  | 0.61  | IN         |
| JPMEGQ  |           | 3,013      | -1,625               | -1.70 | 3,183      | -1,372               | -1.72 | XX         |
| KU9QVJ  |           | 5,731      | 1,094                | 1.14  | 5,368      | 812                  | 1.02  | WZ         |
| LR4KTH  | *         | 5,334      | 697                  | 0.73  | 3,820      | -735                 | -0.92 | WZ         |
| PUYF3V  |           | 4,702      | 64                   | 0.07  | 4,488      | -68                  | -0.09 | IN         |
| RBEVA3  |           | 4,867      | 230                  | 0.24  | 5,064      | 508                  | 0.64  | IN         |
| TU7RDW  |           | 5,489      | 852                  | 0.89  | 4,859      | 303                  | 0.38  | IN         |
| U9E64T  |           | 3,671      | -966                 | -1.01 | 4,520      | -36                  | -0.05 | MT         |
| ZB6EH3  |           | 5,045      | 408                  | 0.43  | 4,948      | 392                  | 0.49  | IN         |

#### Summary Statistics

##### Grand Means

##### Sample B13

4,637.3 psi

##### Sample B14

4,555.8 psi

##### Std Dev Btwn Labs

957.3 psi

796.3 psi

Statistics based on 22 of 22 reporting participants

Sample B13: LDPE & Sample B14: LDPE



## Plastics Interlaboratory Testing Program

### Analysis 771

#### Tensile Stress at Break, Film Samples - psi

Report #136

4th Qtr 2025

#### Key to Instrument Codes Reported by Participants

|    |                                              |    |               |
|----|----------------------------------------------|----|---------------|
| IM | Instru-Met Instruments                       | IN | Instron       |
| MT | MTS/Sintech                                  | TH | Thwing Albert |
| UC | United                                       | WZ | Zwick         |
| XX | Instrument manufacturer not specified by lab |    |               |



# Plastics Interlaboratory Testing Program

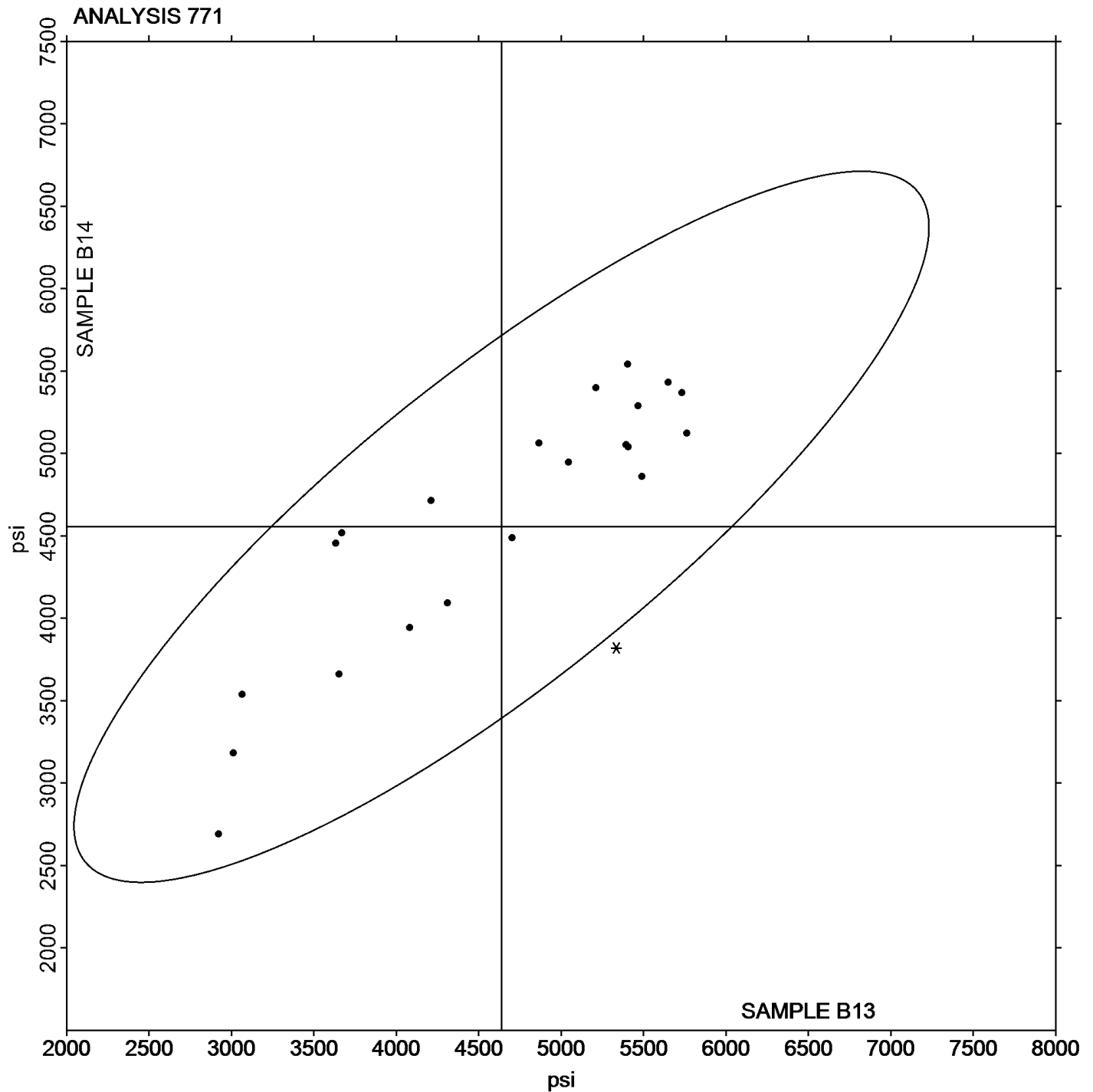
## Analysis 771

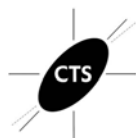
Tensile Stress at Break, Film Samples - psi

Report #136

4th Qtr 2025

Grand Mean Sample B13: 4,637.30 psi    Grand Mean Sample B14: 4,555.76 psi





# Plastics Interlaboratory Testing Program

## Analysis 772

Report #136

4th Qtr 2025

### Percent Elongation at Yield, Films

| WebCode | Data Flag | Sample B13 |                      |       | Sample B14 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 2HJMJ4  |           | 58.51      | -11.32               | -1.17 | 52.17      | -13.24               | -1.66 | IN         |
| 36QHGX  |           | 83.79      | 13.95                | 1.44  | 79.30      | 13.90                | 1.74  | IN         |
| 3AM886  |           | 74.96      | 5.13                 | 0.53  | 68.29      | 2.88                 | 0.36  | MT         |
| 4JKEDN  |           | 76.39      | 6.56                 | 0.68  | 68.65      | 3.24                 | 0.41  | IM         |
| 4NGWZF  |           | 74.40      | 4.57                 | 0.47  | 70.85      | 5.44                 | 0.68  | TH         |
| AZVYT8  |           | 64.85      | -4.98                | -0.51 | 63.83      | -1.57                | -0.20 | IN         |
| D9UV3E  |           | 72.33      | 2.50                 | 0.26  | 68.48      | 3.08                 | 0.39  | IN         |
| DCU7U8  |           | 70.01      | 0.18                 | 0.02  | 70.68      | 5.28                 | 0.66  | IN         |
| FAJ429  |           | 71.66      | 1.82                 | 0.19  | 66.95      | 1.54                 | 0.19  | WZ         |
| GM886X  |           | 67.18      | -2.65                | -0.27 | 62.25      | -3.16                | -0.40 | IN         |
| KU9QVJ  |           | 67.02      | -2.81                | -0.29 | 64.66      | -0.75                | -0.09 | WZ         |
| LR4KTH  |           | 57.40      | -12.43               | -1.28 | 54.50      | -10.91               | -1.37 | WZ         |
| PUYF3V  | *         | 93.62      | 23.79                | 2.45  | 78.08      | 12.67                | 1.59  | IN         |
| RBEVA3  |           | 66.90      | -2.93                | -0.30 | 63.60      | -1.81                | -0.23 | IN         |
| TU7RDW  |           | 52.41      | -17.42               | -1.80 | 49.50      | -15.90               | -2.00 | IN         |
| U9E64T  |           | 69.06      | -0.77                | -0.08 | 67.37      | 1.96                 | 0.25  | MT         |
| ZB6EH3  |           | 66.67      | -3.16                | -0.33 | 62.71      | -2.70                | -0.34 | IN         |

#### Summary Statistics

##### Grand Means

Sample B13  
69.833 Percent

Sample B14  
65.405 Percent

##### Std Dev Btwn Labs

9.700 Percent

7.970 Percent

Statistics based on 17 of 17 reporting participants

Sample B13: LDPE & Sample B14: LDPE

#### Key to Instrument Codes Reported by Participants

IM Instru-Met Instruments

IN Instron

MT MTS/Sintech

TH Thwing Albert

WZ Zwick



# Plastics Interlaboratory Testing Program

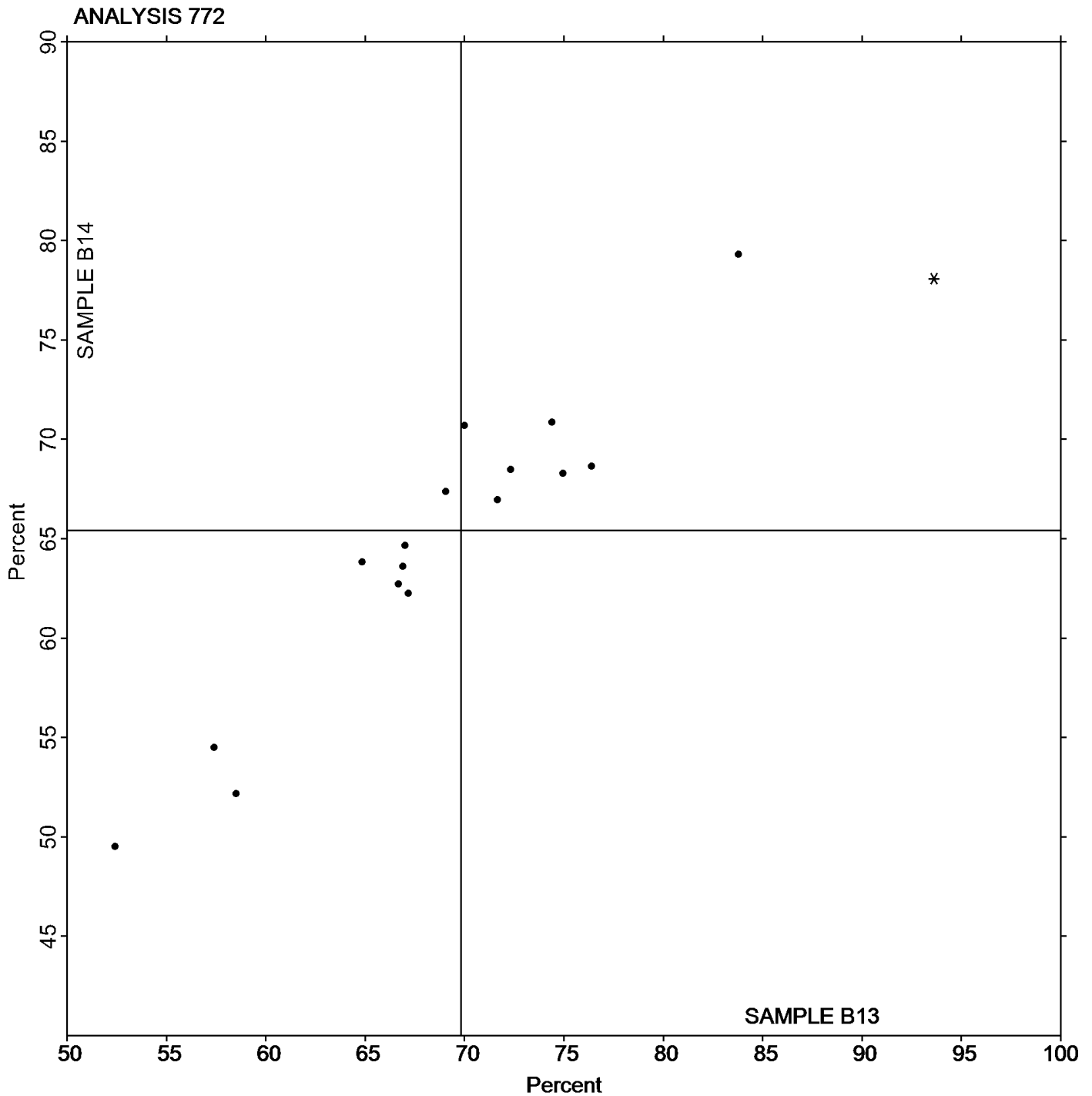
## Analysis 772

### Percent Elongation at Yield, Films

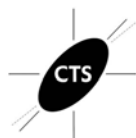
Report #136

4th Qtr 2025

Grand Mean Sample B13: 69.833 Percent    Grand Mean Sample B14: 65.405 Percent



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot.



# Plastics Interlaboratory Testing Program

## Analysis 773

Report #136

4th Qtr 2025

### Percent Elongation at Break, Film Samples

| WebCode | Data Flag | Sample B13 |                      |       | Sample B14 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 2HJMJ4  |           | 627.4      | -135.4               | -0.90 | 633.6      | -155.6               | -0.92 | IN         |
| 36QHGX  |           | 632.9      | -129.9               | -0.86 | 659.4      | -129.9               | -0.77 | IN         |
| 3AM886  |           | 714.6      | -48.2                | -0.32 | 721.4      | -67.8                | -0.40 | MT         |
| 4JKEDN  |           | 738.7      | -24.1                | -0.16 | 753.6      | -35.6                | -0.21 | IM         |
| 4NGWZF  |           | 1,061.1    | 298.2                | 1.98  | 1,111.0    | 321.7                | 1.90  | TH         |
| AZVYT8  |           | 706.7      | -56.1                | -0.37 | 752.7      | -36.5                | -0.22 | IN         |
| D9UV3E  |           | 817.7      | 54.8                 | 0.36  | 886.7      | 97.5                 | 0.58  | IN         |
| DCU7U8  |           | 860.6      | 97.8                 | 0.65  | 855.5      | 66.3                 | 0.39  | IN         |
| FAJ429  |           | 1,095.5    | 332.7                | 2.21  | 1,138.4    | 349.2                | 2.07  | WZ         |
| GM886X  |           | 673.6      | -89.2                | -0.59 | 685.7      | -103.5               | -0.61 | IN         |
| KU9QVJ  |           | 829.6      | 66.7                 | 0.44  | 819.8      | 30.5                 | 0.18  | WZ         |
| LR4KTH  |           | 586.0      | -176.8               | -1.17 | 509.0      | -280.2               | -1.66 | WZ         |
| PUYF3V  |           | 807.3      | 44.5                 | 0.29  | 831.4      | 42.2                 | 0.25  | IN         |
| RBEVA3  |           | 819.0      | 56.2                 | 0.37  | 923.0      | 133.8                | 0.79  | IN         |
| TU7RDW  |           | 579.5      | -183.3               | -1.22 | 584.3      | -204.9               | -1.21 | IN         |
| U9E64T  |           | 603.1      | -159.7               | -1.06 | 684.5      | -104.7               | -0.62 | MT         |
| ZB6EH3  |           | 815.0      | 52.2                 | 0.35  | 867.0      | 77.8                 | 0.46  | IN         |

#### Summary Statistics

##### Grand Means

##### Sample B13

762.84 Percent

##### Sample B14

789.23 Percent

##### Std Dev Btwn Labs

150.85 Percent

168.91 Percent

Statistics based on 17 of 17 reporting participants

Sample B13: LDPE & Sample B14: LDPE

#### Key to Instrument Codes Reported by Participants

IM Instru-Met Instruments

IN Instron

MT MTS/Sintech

TH Thwing Albert

WZ Zwick



# Plastics Interlaboratory Testing Program

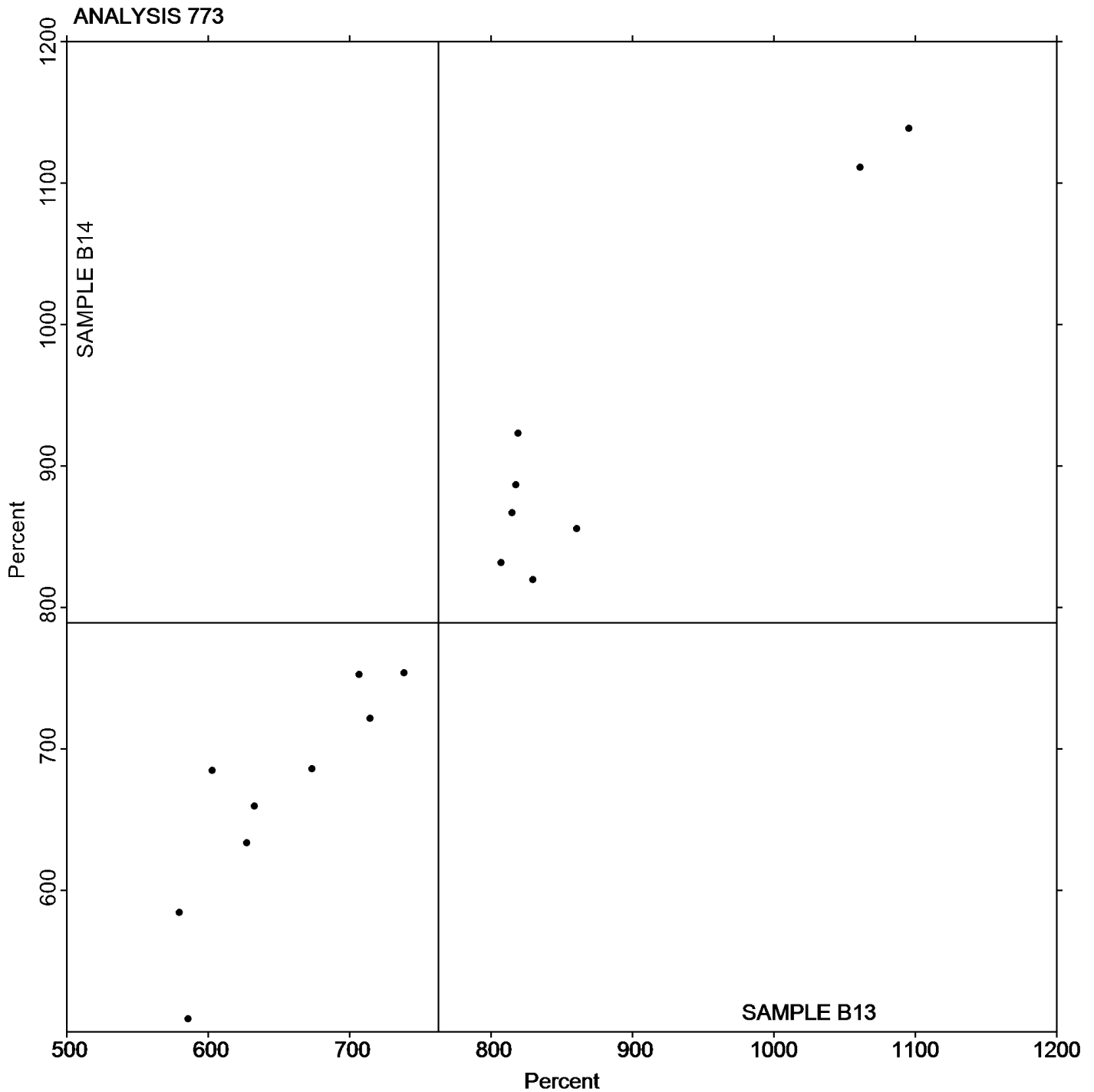
## Analysis 773

### Percent Elongation at Break, Film Samples

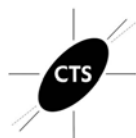
Report #136

4th Qtr 2025

Grand Mean Sample B13: 762.84 Percent    Grand Mean Sample B14: 789.23 Percent



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot.



# Plastics Interlaboratory Testing Program

## Analysis 774

Report #136

4th Qtr 2025

### Thickness of Film Tensile Samples - mils

| WebCode | Data Flag | Sample B13 |                      |       | Sample B14 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| 2HJMJ4  |           | 2.9331     | 0.1453               | 1.03  | 2.9488     | -0.0312              | -0.15 |
| 36QHGX  |           | 2.8623     | 0.0745               | 0.53  | 2.8859     | -0.0941              | -0.46 |
| 3AM886  |           | 2.5250     | -0.2628              | -1.86 | 2.8800     | -0.1000              | -0.49 |
| 4JKEDN  |           | 2.6000     | -0.1878              | -1.33 | 3.0800     | 0.1000               | 0.49  |
| 4NGWZF  |           | 2.5920     | -0.1958              | -1.39 | 2.8300     | -0.1500              | -0.74 |
| AEEMXY  |           | 2.7500     | -0.0378              | -0.27 | 2.6700     | -0.3100              | -1.53 |
| AZVYT8  |           | 2.5300     | -0.2578              | -1.83 | 2.9100     | -0.0700              | -0.34 |
| D9UV3E  |           | 2.7677     | -0.0201              | -0.14 | 2.9291     | -0.0509              | -0.25 |
| DCU7U8  |           | 2.7983     | 0.0105               | 0.07  | 2.7774     | -0.2026              | -1.00 |
| FAJ429  |           | 2.8504     | 0.0626               | 0.44  | 3.0591     | 0.0791               | 0.39  |
| GM886X  |           | 2.9760     | 0.1882               | 1.33  | 3.1360     | 0.1560               | 0.77  |
| KU9QVJ  |           | 2.8701     | 0.0823               | 0.58  | 2.7795     | -0.2005              | -0.99 |
| L8E8EU  |           | 2.7490     | -0.0388              | -0.27 | 2.9160     | -0.0640              | -0.32 |
| LR4KTH  |           | 2.8661     | 0.0783               | 0.56  | 2.6339     | -0.3461              | -1.70 |
| N3WLJR  |           | 2.9830     | 0.1952               | 1.38  | 3.2830     | 0.3030               | 1.49  |
| PUYF3V  |           | 2.9160     | 0.1282               | 0.91  | 3.0770     | 0.0970               | 0.48  |
| RBEVA3  |           | 2.6700     | -0.1178              | -0.83 | 3.1650     | 0.1850               | 0.91  |
| TU7RDW  |           | 2.7650     | -0.0228              | -0.16 | 3.3410     | 0.3610               | 1.78  |
| U9E64T  |           | 2.9120     | 0.1242               | 0.88  | 2.9630     | -0.0170              | -0.08 |
| ZB6EH3  |           | 2.8400     | 0.0522               | 0.37  | 3.3350     | 0.3550               | 1.75  |

#### Summary Statistics

|                           | Sample B13   | Sample B14   |
|---------------------------|--------------|--------------|
| <b>Grand Means</b>        | 2.78780 mils | 2.97998 mils |
| <b>Stnd Dev Btwn Labs</b> | 0.14115 mils | 0.20310 mils |

Statistics based on 20 of 20 reporting participants

Sample B13: LDPE & Sample B14: LDPE



# Plastics Interlaboratory Testing Program

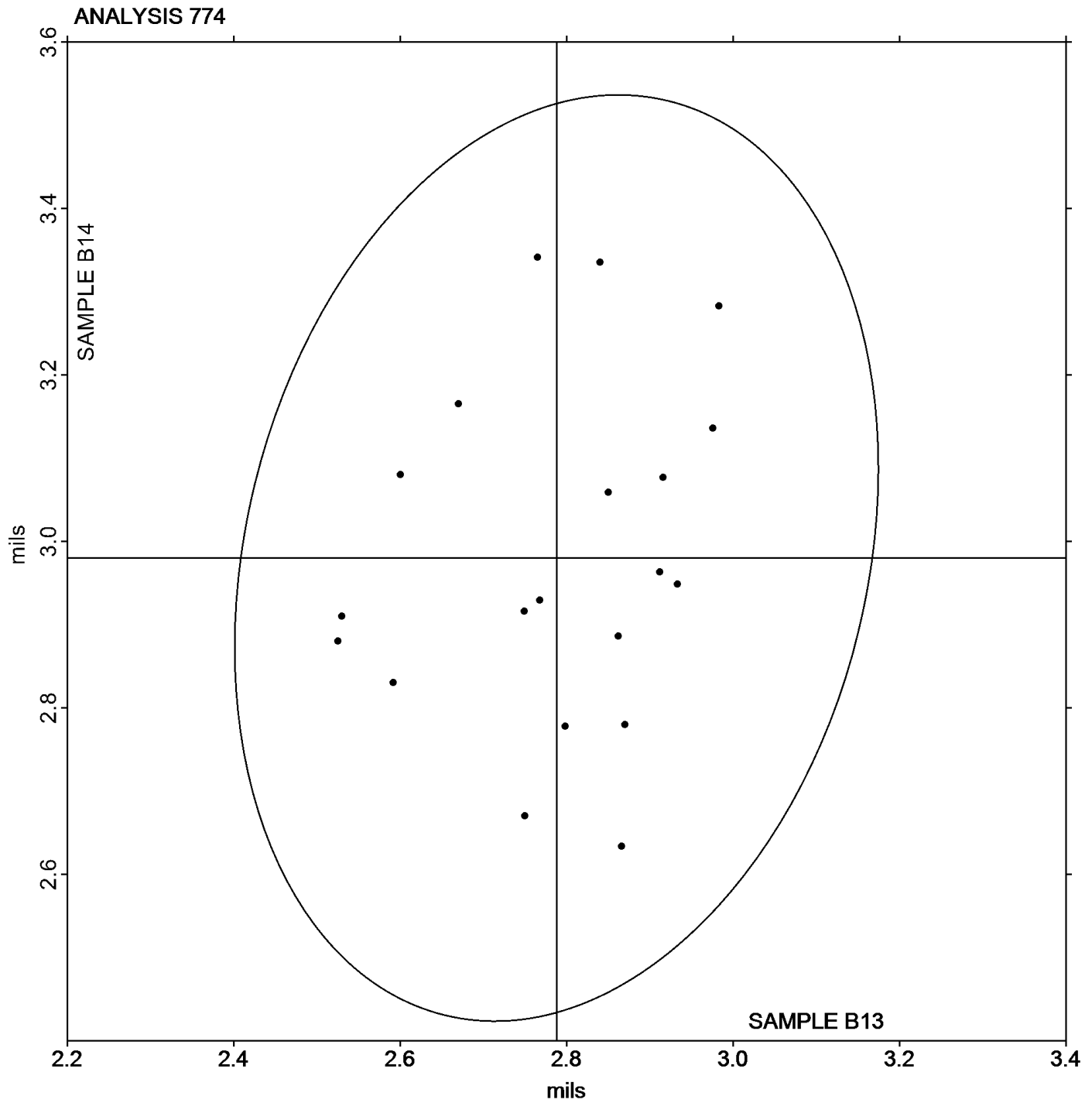
## Analysis 774

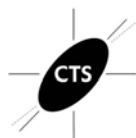
Thickness of Film Tensile Samples - mils

Report #136

4th Qtr 2025

Grand Mean Sample B13: 2.7878 mils    Grand Mean Sample B14: 2.9800 mils





# Plastics Interlaboratory Testing Program

## Analysis 775

Report #136

4th Qtr 2025

### Secant Modulus at 1% Strain - psi

| WebCode | Data Flag | Sample B13 |                      |       | Sample B14 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 2HJMJ4  |           | 39,410     | -611                 | -0.12 | 38,210     | -1,259               | -0.26 | IN         |
| 4JKEDN  |           | 30,765     | -9,257               | -1.83 | 31,710     | -7,759               | -1.62 | IM         |
| D9UV3E  |           | 49,434     | 9,413                | 1.86  | 47,686     | 8,218                | 1.71  | IN         |
| DCU7U8  |           | 38,814     | -1,208               | -0.24 | 39,496     | 27                   | 0.01  | IN         |
| FAJ429  |           | 43,089     | 3,068                | 0.61  | 41,205     | 1,736                | 0.36  | WZ         |
| GM886X  |           | 36,593     | -3,428               | -0.68 | 36,697     | -2,772               | -0.58 | IN         |
| KU9QVJ  |           | 41,138     | 1,117                | 0.22  | 41,693     | 2,224                | 0.46  | WZ         |
| PUYF3V  |           | 38,287     | -1,734               | -0.34 | 39,046     | -422                 | -0.09 | IN         |
| RBEVA3  |           | 46,654     | 6,633                | 1.31  | 46,150     | 6,681                | 1.39  | IN         |
| TU7RDW  |           | 36,808     | -3,214               | -0.63 | 33,075     | -6,394               | -1.33 | IN         |
| ZB6EH3  |           | 39,243     | -779                 | -0.15 | 39,189     | -280                 | -0.06 | IN         |

#### Summary Statistics

|                           | Sample B13   | Sample B14   |
|---------------------------|--------------|--------------|
| <b>Grand Means</b>        | 40,021.3 psi | 39,468.8 psi |
| <b>Stnd Dev Btwn Labs</b> | 5,064.3 psi  | 4,803.4 psi  |

Statistics based on 11 of 11 reporting participants

Sample B13: LDPE & Sample B14: LDPE

#### Key to Instrument Codes Reported by Participants

IM Instru-Met Instruments

IN Instron

WZ Zwick



# Plastics Interlaboratory Testing Program

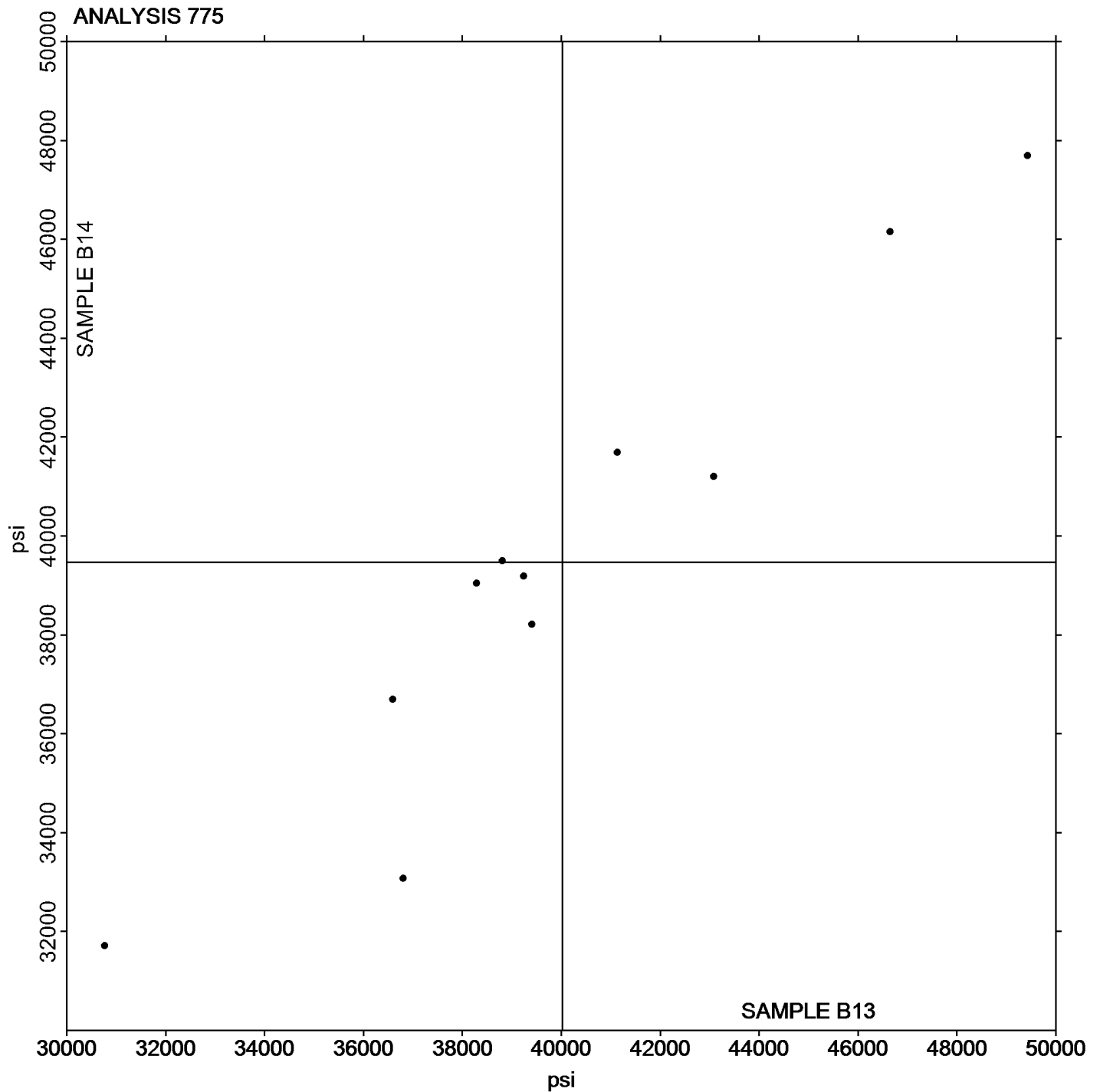
## Analysis 775

Secant Modulus at 1% Strain - psi

Report #136

4th Qtr 2025

Grand Mean Sample B13: 40,021.31 psi    Grand Mean Sample B14: 39,468.83 psi



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot.



# Plastics Interlaboratory Testing Program

## Analysis 776

Report #136

4th Qtr 2025

### Secant Modulus at 2% Strain - psi

| WebCode | Data Flag | Sample B13 |                      |       | Sample B14 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 2HJMJ4  |           | 33,810     | -1,108               | -0.24 | 33,110     | -1,038               | -0.26 | IN         |
| 4JKEDN  |           | 27,547     | -7,372               | -1.59 | 28,006     | -6,142               | -1.52 | IM         |
| D9UV3E  |           | 40,215     | 5,297                | 1.14  | 39,180     | 5,031                | 1.24  | IN         |
| DCU7U8  |           | 32,694     | -2,224               | -0.48 | 33,170     | -978                 | -0.24 | IN         |
| FAJ429  |           | 40,438     | 5,519                | 1.19  | 39,101     | 4,953                | 1.22  | WZ         |
| GM886X  |           | 31,586     | -3,333               | -0.72 | 31,593     | -2,556               | -0.63 | IN         |
| KU9QVJ  |           | 34,325     | -594                 | -0.13 | 34,045     | -104                 | -0.03 | WZ         |
| PUYF3V  |           | 32,203     | -2,716               | -0.59 | 32,462     | -1,686               | -0.42 | IN         |
| RBEVA3  |           | 36,609     | 1,690                | 0.36  | 36,348     | 2,200                | 0.54  | IN         |
| TU7RDW  |           | 32,180     | -2,739               | -0.59 | 28,654     | -5,494               | -1.36 | IN         |
| U9E64T  |           | 44,175     | 9,256                | 2.00  | 40,869     | 6,721                | 1.66  | MT         |
| ZB6EH3  |           | 33,242     | -1,676               | -0.36 | 33,242     | -907                 | -0.22 | IN         |

#### Summary Statistics

##### Grand Means

Sample B13

34,918.5 psi

Sample B14

34,148.3 psi

##### Stnd Dev Btwn Labs

4,638.9 psi

4,045.3 psi

Statistics based on 12 of 12 reporting participants

Sample B13: LDPE & Sample B14: LDPE

#### Key to Instrument Codes Reported by Participants

IM Instru-Met Instruments

IN Instron

MT MTS/Sintech

WZ Zwick



# Plastics Interlaboratory Testing Program

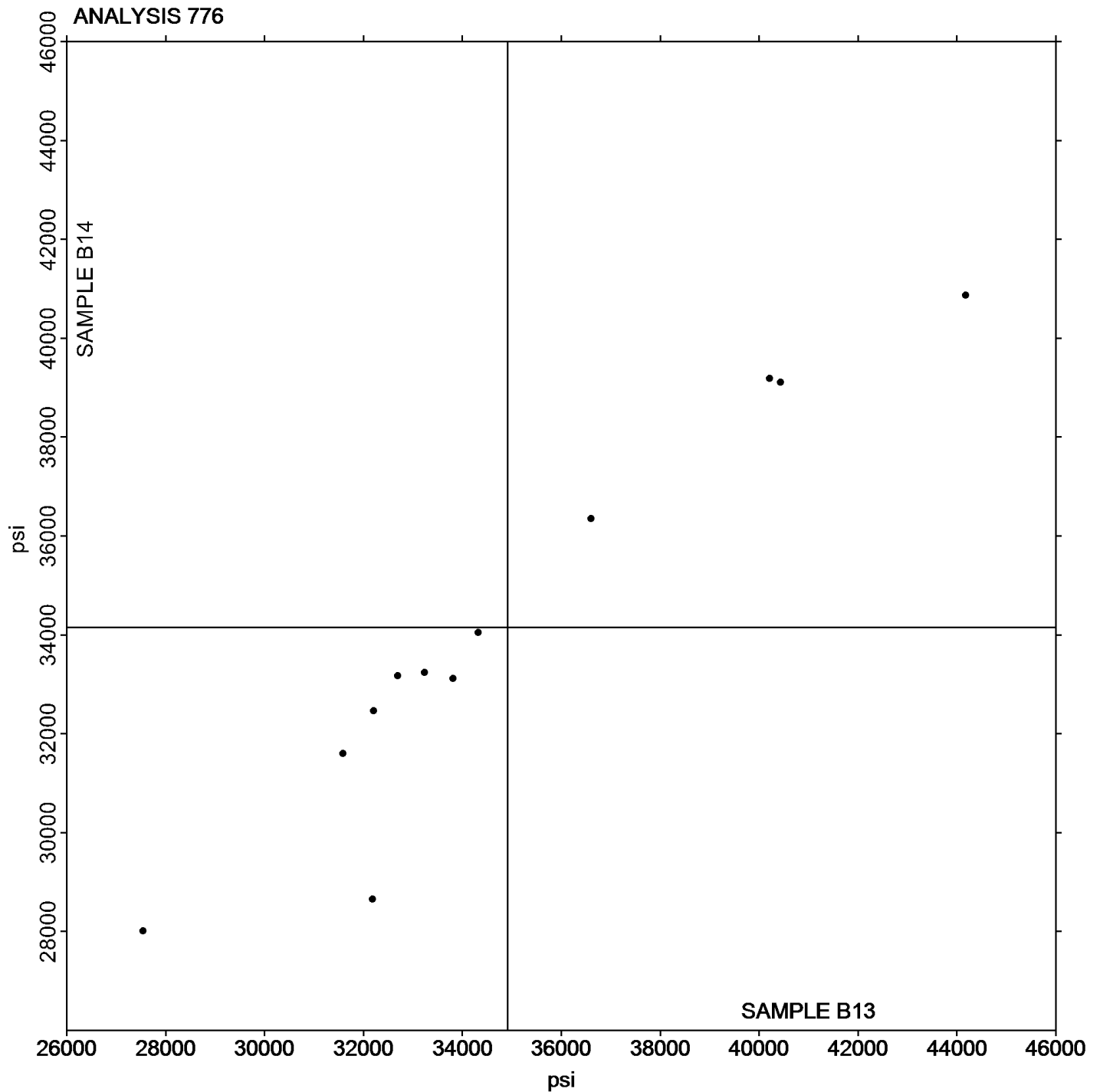
## Analysis 776

Secant Modulus at 2% Strain - psi

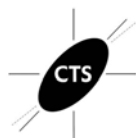
Report #136

4th Qtr 2025

Grand Mean Sample B13: 34,918.50 psi    Grand Mean Sample B14: 34,148.26 psi



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot.



# Plastics Interlaboratory Testing Program

## Analysis 780

### Coefficient of Static Friction

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample P13 |                      |       | Sample P14 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 2HJMJ4  |           | 0.1622     | 0.0067               | 0.28  | 0.1720     | -0.0054              | -0.12 | TH         |
| 3AM886  |           | 0.1596     | 0.0041               | 0.17  | 0.1560     | -0.0214              | -0.47 | MS         |
| 4JKEDN  |           | 0.1324     | -0.0231              | -0.96 | 0.1420     | -0.0354              | -0.77 | TH         |
| 7PLC2J  |           | 0.1485     | -0.0071              | -0.29 | 0.2762     | 0.0988               | 2.15  | IG         |
| AGHERW  |           | 0.1668     | 0.0113               | 0.47  | 0.1636     | -0.0138              | -0.30 | XX         |
| D6XA9Q  |           | 0.1370     | -0.0185              | -0.77 | 0.1328     | -0.0446              | -0.97 | TN         |
| TU7RDW  |           | 0.2108     | 0.0553               | 2.30  | 0.2268     | 0.0494               | 1.08  | MI         |
| U9E64T  |           | 0.1360     | -0.0195              | -0.81 | 0.1760     | -0.0014              | -0.03 | TH         |
| ZB6EH3  |           | 0.1466     | -0.0089              | -0.37 | 0.1508     | -0.0266              | -0.58 | TM         |

#### Summary Statistics

|                          | Sample P13  | Sample P14  |
|--------------------------|-------------|-------------|
| <b>Grand Means</b>       | 0.15554 COF | 0.17735 COF |
| <b>Std Dev Btwn Labs</b> | 0.02406 COF | 0.04586 COF |

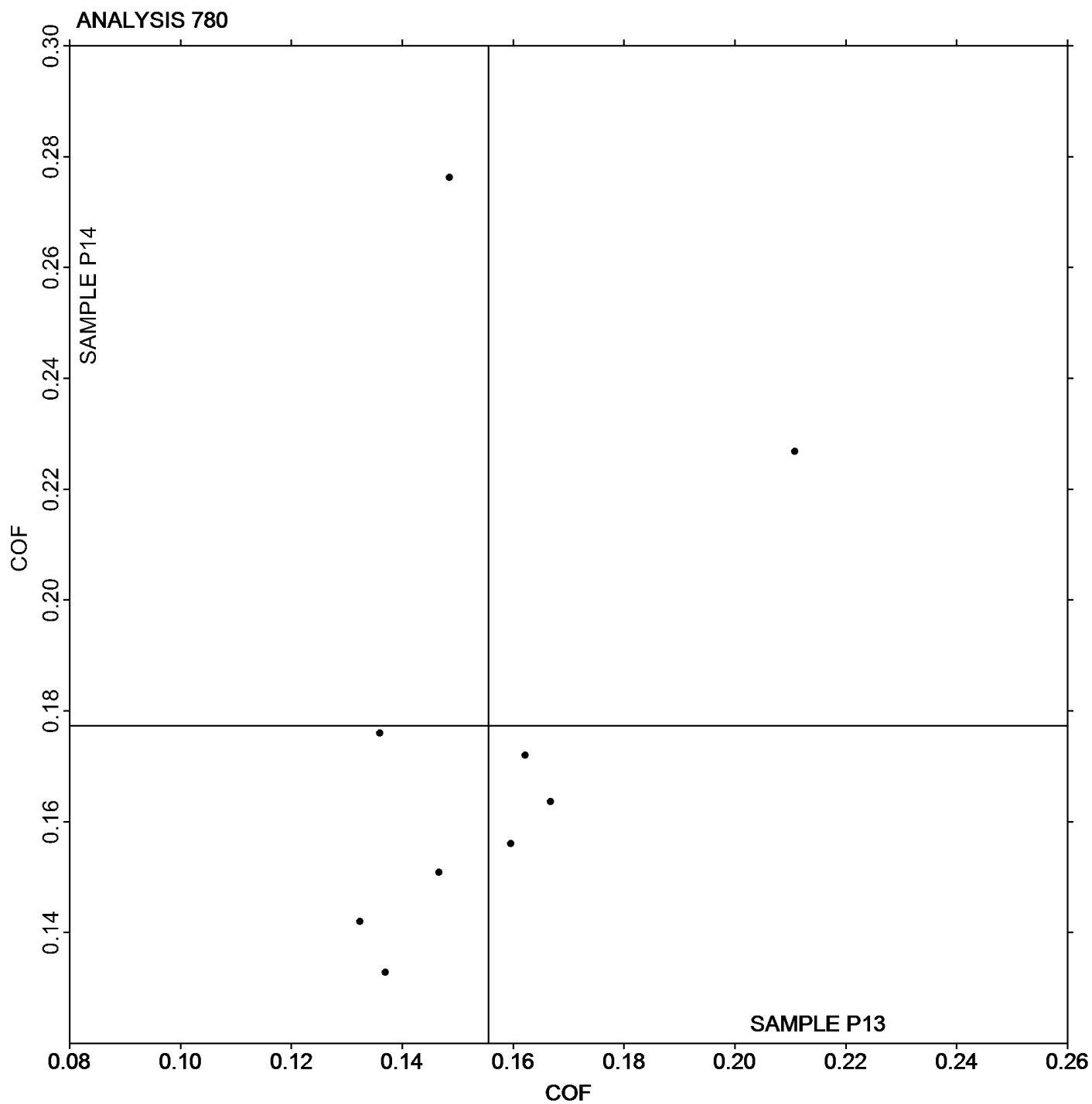
Statistics based on 9 of 9 reporting participants

Sample P13: LDPE & Sample P14: LDPE

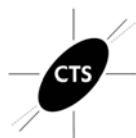
#### Key to Instrument Codes Reported by Participants

|    |                                            |    |                                                |
|----|--------------------------------------------|----|------------------------------------------------|
| IG | Instron                                    | MI | MTS Insight                                    |
| MS | MTS                                        | TH | Thwing Albert Friction/Peel Tester Model 225-1 |
| TM | TMI Slip and Friction Tester               | TN | TMI #32-06                                     |
| XX | Instrument make/model not specified by lab |    |                                                |

**Grand Mean Sample P13: 0.15554 COF    Grand Mean Sample P14: 0.17735 COF**



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot.



# Plastics Interlaboratory Testing Program

## Analysis 781

### Coefficient of Kinetic Friction

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample P13 |                      |       | Sample P14 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 2HJMJ4  |           | 0.1080     | 0.0128               | 0.34  | 0.1144     | 0.0097               | 0.24  | TH         |
| 3AM886  |           | 0.1798     | 0.0846               | 2.22  | 0.1512     | 0.0465               | 1.14  | MS         |
| 4JKEDN  |           | 0.0628     | -0.0324              | -0.85 | 0.0694     | -0.0353              | -0.86 | TH         |
| 7PLC2J  |           | 0.0749     | -0.0203              | -0.53 | 0.1820     | 0.0774               | 1.89  | IG         |
| AGHERW  |           | 0.0622     | -0.0330              | -0.86 | 0.0694     | -0.0353              | -0.86 | XX         |
| D6XA9Q  |           | 0.0926     | -0.0026              | -0.07 | 0.0782     | -0.0265              | -0.65 | TN         |
| TU7RDW  |           | 0.1262     | 0.0310               | 0.81  | 0.1236     | 0.0189               | 0.46  | MI         |
| U9E64T  |           | 0.0750     | -0.0202              | -0.53 | 0.0792     | -0.0255              | -0.62 | TH         |
| ZB6EH3  |           | 0.0750     | -0.0202              | -0.53 | 0.0746     | -0.0301              | -0.74 | TM         |

#### Summary Statistics

|                          | Sample P13  | Sample P14  |
|--------------------------|-------------|-------------|
| <b>Grand Means</b>       | 0.09517 COF | 0.10467 COF |
| <b>Std Dev Btwn Labs</b> | 0.03817 COF | 0.04084 COF |

Statistics based on 9 of 9 reporting participants

Sample P13: LDPE & Sample P14: LDPE

#### Key to Instrument Codes Reported by Participants

|                                                      |                                                          |
|------------------------------------------------------|----------------------------------------------------------|
| <b>IG</b> Instron                                    | <b>MI</b> MTS Insight                                    |
| <b>MS</b> MTS                                        | <b>TH</b> Thwing Albert Friction/Peel Tester Model 225-1 |
| <b>TM</b> TMI Slip and Friction Tester               | <b>TN</b> TMI #32-06                                     |
| <b>XX</b> Instrument make/model not specified by lab |                                                          |



# Plastics Interlaboratory Testing Program

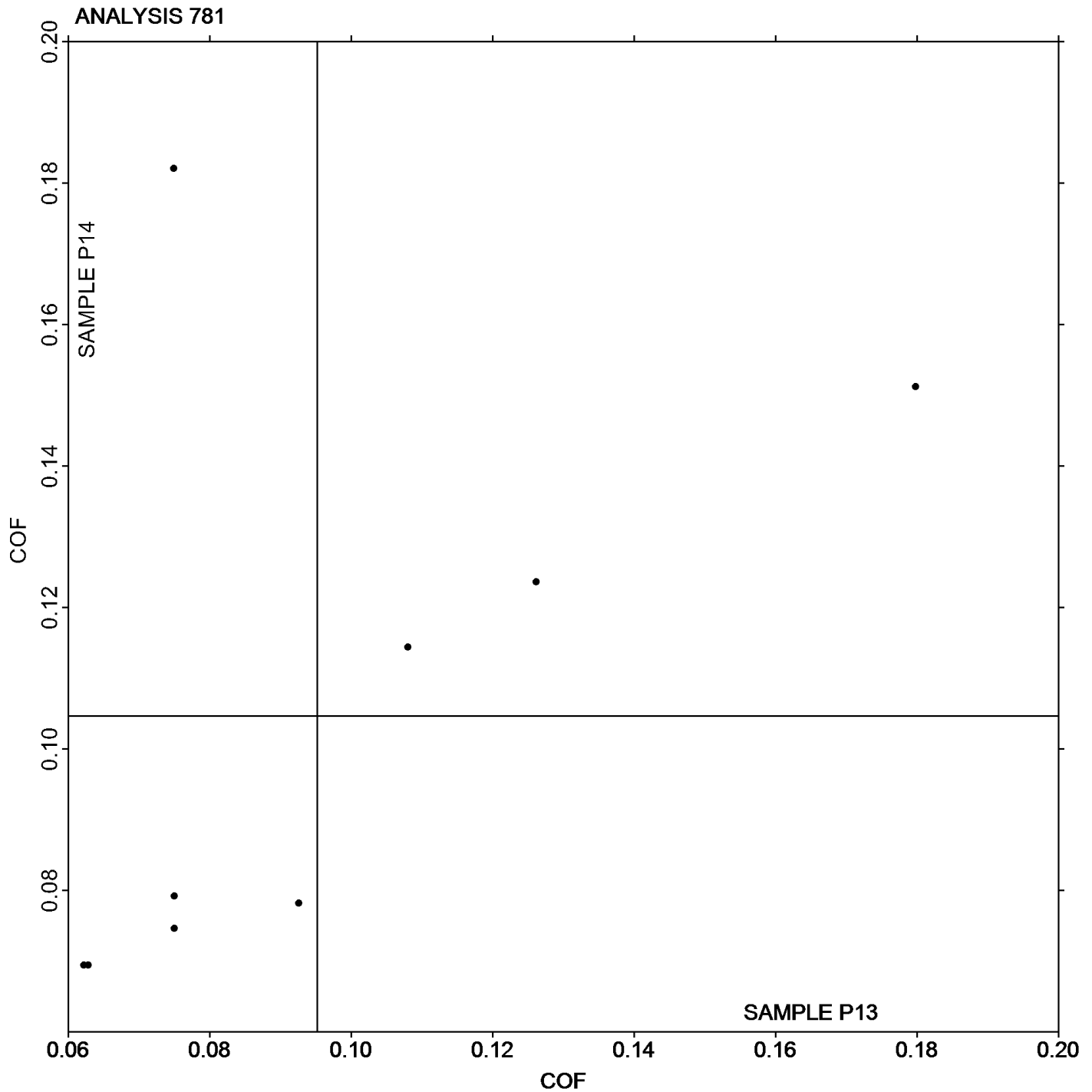
Analysis 781

Coefficient of Kinetic Friction

Report #136

4th Qtr 2025

Grand Mean Sample P13: 0.09517 COF    Grand Mean Sample P14: 0.10467 COF



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot.



# Plastics Interlaboratory Testing Program

## Analysis 782

### Tear Resistance of Films

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample Q13 |                      |       | Sample Q14 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 2HJMJ4  |           | 270.5      | 2.8                  | 0.07  | 463.8      | -103.9               | -1.75 | TE         |
| 36QHGX  |           | 277.6      | 9.9                  | 0.26  | 550.0      | -17.7                | -0.30 | SZ         |
| 4JKEDN  |           | 192.6      | -75.1                | -1.97 | 588.2      | 20.4                 | 0.34  | EM         |
| LR4KTH  |           | 297.8      | 30.1                 | 0.79  | 641.4      | 73.7                 | 1.24  | LO         |
| TU7RDW  |           | 278.4      | 10.7                 | 0.28  | 595.1      | 27.4                 | 0.46  | TE         |
| ZB6EH3  |           | 289.3      | 21.6                 | 0.57  | 568.0      | 0.3                  | 0.00  | TM         |

#### Summary Statistics

##### Grand Means

##### Sample Q13

267.70 grams-force

##### Sample Q14

567.75 grams-force

##### Std Dev Btwn Labs

38.01 grams-force

59.52 grams-force

Statistics based on 6 of 6 reporting participants

Sample Q13: LDPE & Sample Q14: LDPE

#### Key to Instrument Codes Reported by Participants

EM Elmendorf Tear Tester

LO Lorentzen & Wettre Model II

SZ Textest FX 3700

TE Thwing-Albert Pro Tear

TM TMI No. 83-1100



# Plastics Interlaboratory Testing Program

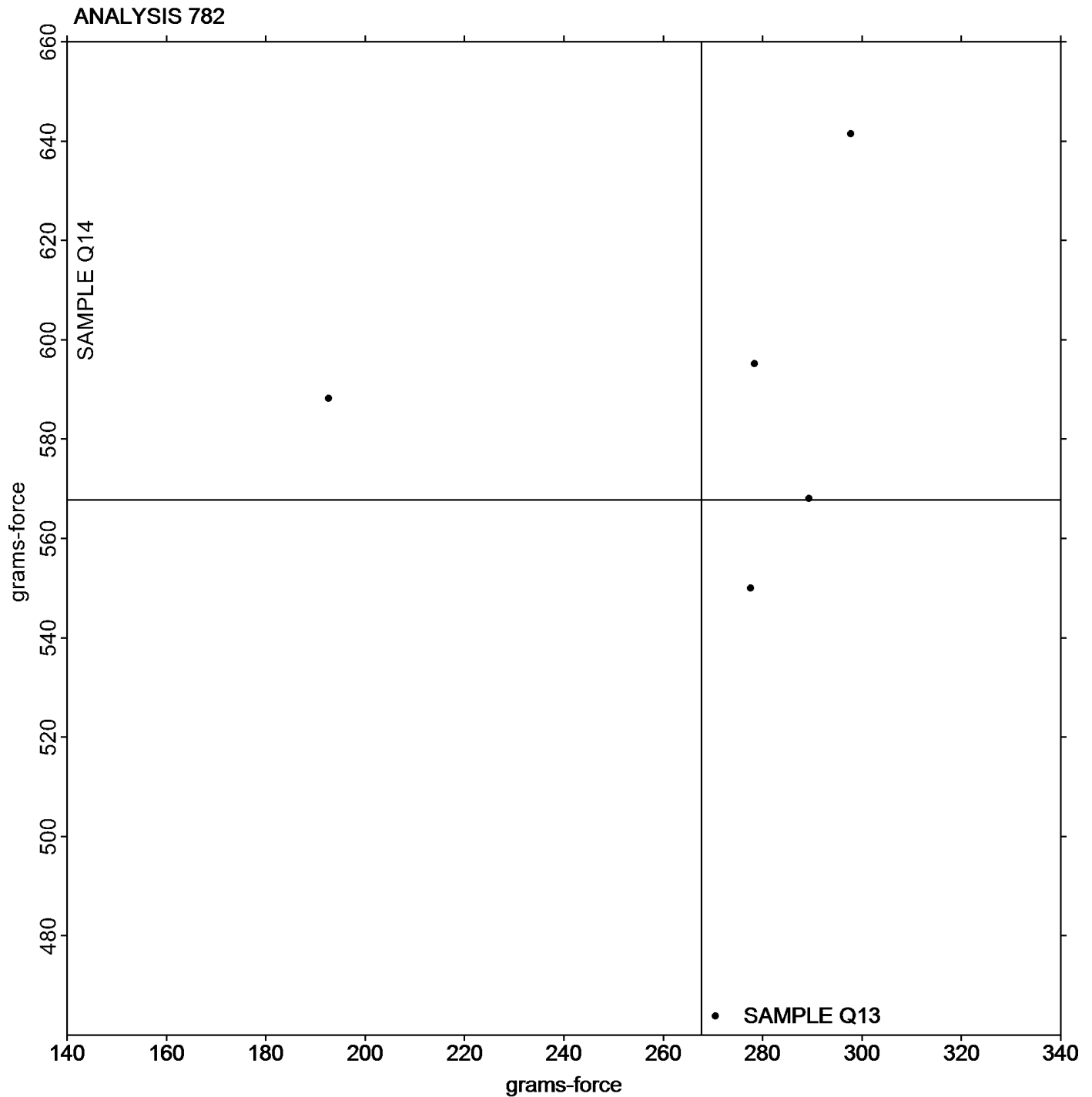
Analysis 782

Tear Resistance of Films

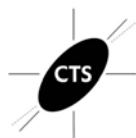
Report #136

4th Qtr 2025

Grand Mean Sample Q13: 267.70 grams-force    Grand Mean Sample Q14: 567.75 grams-force



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot.



# Plastics Interlaboratory Testing Program

Analysis 785

Percent Haze of Film

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample D13 |                      |       | Sample D14 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 2HJMJ4  |           | 24.963     | -0.067               | -0.06 | 19.238     | -0.020               | -0.02 | BJ         |
| 36QHGX  |           | 25.125     | 0.096                | 0.09  | 18.538     | -0.720               | -0.65 | BJ         |
| 3Q8TTG  |           | 25.905     | 0.876                | 0.80  | 20.770     | 1.513                | 1.36  | BJ         |
| 473EV3  |           | 25.650     | 0.621                | 0.56  | 20.163     | 0.905                | 0.82  | BJ         |
| 4JKEDN  |           | 25.694     | 0.665                | 0.60  | 18.503     | -0.755               | -0.68 | BJ         |
| 73TBXW  |           | 23.046     | -1.983               | -1.80 | 17.724     | -1.534               | -1.38 | XR         |
| 8QWMHM  |           | 25.400     | 0.371                | 0.34  | 19.875     | 0.618                | 0.56  | BJ         |
| 9LGC4J  |           | 26.103     | 1.073                | 0.98  | 18.760     | -0.497               | -0.45 | BJ         |
| 9Y87ER  |           | 25.175     | 0.146                | 0.13  | 19.325     | 0.068                | 0.06  | BJ         |
| DBZD2A  |           | 25.400     | 0.371                | 0.34  | 19.063     | -0.195               | -0.18 | BJ         |
| GGZAJD  |           | 24.201     | -0.828               | -0.75 | 17.760     | -1.497               | -1.35 | XR         |
| GM886X  |           | 24.700     | -0.329               | -0.30 | 20.800     | 1.543                | 1.39  | BJ         |
| L8FWLC  |           | 26.025     | 0.996                | 0.91  | 19.563     | 0.305                | 0.28  | BJ         |
| M3HWL8  |           | 25.425     | 0.396                | 0.36  | 19.688     | 0.430                | 0.39  | BJ         |
| N3WLJR  |           | 26.438     | 1.408                | 1.28  | 19.263     | 0.005                | 0.00  | BJ         |
| PPJ339  |           | 26.259     | 1.230                | 1.12  | 19.425     | 0.168                | 0.15  | XX         |
| R4ZHHD  |           | 25.925     | 0.896                | 0.81  | 19.163     | -0.095               | -0.09 | BJ         |
| TU7RDW  |           | 24.800     | -0.229               | -0.21 | 19.500     | 0.243                | 0.22  | BJ         |
| U62JYT  |           | 22.811     | -2.218               | -2.02 | 17.226     | -2.031               | -1.83 | XR         |
| UL6WQH  |           | 22.256     | -2.773               | -2.52 | 17.318     | -1.940               | -1.75 | HL         |
| WQD44R  |           | 25.100     | 0.071                | 0.06  | 19.413     | 0.155                | 0.14  | BJ         |
| XCNLQE  |           | 25.084     | 0.055                | 0.05  | 20.099     | 0.841                | 0.76  | XR         |
| ZB6EH3  | *         | 24.188     | -0.842               | -0.77 | 21.750     | 2.493                | 2.25  | BJ         |

## Summary Statistics

|                           | Sample D13      | Sample D14      |
|---------------------------|-----------------|-----------------|
| <b>Grand Means</b>        | 25.0292 Percent | 19.2574 Percent |
| <b>Stnd Dev Btwn Labs</b> | 1.0997 Percent  | 1.1088 Percent  |

Statistics based on 23 of 23 reporting participants

Sample D13: LDPE & Sample D14: LDPE

## Key to Instrument Codes Reported by Participants

|    |                                       |    |                                            |
|----|---------------------------------------|----|--------------------------------------------|
| BJ | BYK-Gardner Haze-Gard Plus/i          | HL | Hunterlab Ultrascan                        |
| XR | X-Rite Spectrocolorimeter (any model) | XX | Instrument make/model not specified by lab |



# Plastics Interlaboratory Testing Program

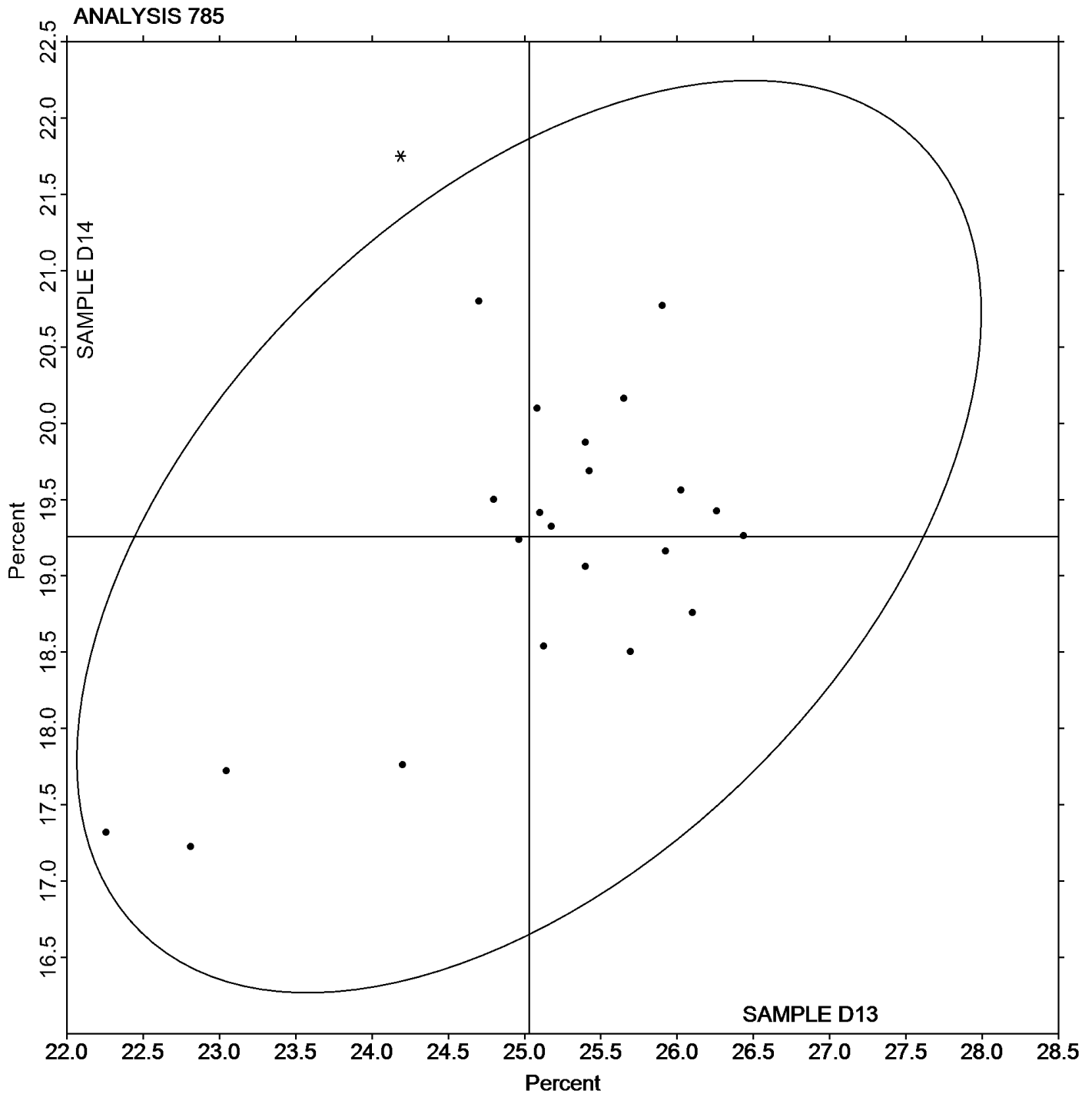
Analysis 785

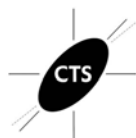
Percent Haze of Film

Report #136

4th Qtr 2025

Grand Mean Sample D13: 25.029 Percent    Grand Mean Sample D14: 19.257 Percent





# Plastics Interlaboratory Testing Program

## Analysis 786

Report #136

4th Qtr 2025

### Total Luminous Transmittance of Film

| WebCode | Data Flag | Sample D13 |                      |       | Sample D14 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 2HJMJ4  |           | 92.21      | -0.28                | -0.27 | 92.46      | -0.18                | -0.18 | BJ         |
| 36QHGX  |           | 91.86      | -0.63                | -0.62 | 92.26      | -0.38                | -0.37 | BJ         |
| 3Q8TTG  |           | 92.49      | 0.00                 | 0.00  | 92.90      | 0.25                 | 0.25  | BJ         |
| 473EV3  |           | 92.29      | -0.20                | -0.20 | 92.63      | -0.02                | -0.02 | BJ         |
| 73TBXW  |           | 90.97      | -1.52                | -1.50 | 90.90      | -1.74                | -1.70 | XR         |
| 8QWMHM  |           | 93.20      | 0.71                 | 0.70  | 93.26      | 0.62                 | 0.60  | BJ         |
| 9LGC4J  |           | 92.98      | 0.49                 | 0.48  | 93.07      | 0.42                 | 0.41  | BJ         |
| 9Y87ER  |           | 92.86      | 0.37                 | 0.36  | 93.25      | 0.61                 | 0.59  | BJ         |
| DBZD2A  |           | 92.55      | 0.06                 | 0.06  | 92.65      | 0.01                 | 0.01  | BJ         |
| GGZAJD  |           | 90.96      | -1.53                | -1.51 | 91.02      | -1.62                | -1.58 | XR         |
| GM886X  |           | 94.08      | 1.58                 | 1.56  | 94.04      | 1.39                 | 1.36  | BJ         |
| L8FWLC  |           | 93.01      | 0.52                 | 0.51  | 93.21      | 0.57                 | 0.55  | BJ         |
| M3HWL8  |           | 93.48      | 0.98                 | 0.97  | 93.84      | 1.19                 | 1.16  | BJ         |
| N3WLJR  |           | 93.28      | 0.78                 | 0.77  | 93.58      | 0.93                 | 0.91  | BJ         |
| PPJ339  | *         | 92.34      | -0.15                | -0.15 | 91.89      | -0.76                | -0.73 | XX         |
| R4ZHHD  |           | 93.88      | 1.38                 | 1.36  | 94.04      | 1.39                 | 1.36  | BJ         |
| TU7RDW  |           | 92.81      | 0.32                 | 0.32  | 92.88      | 0.23                 | 0.23  | BJ         |
| U62JYT  |           | 90.96      | -1.53                | -1.51 | 90.98      | -1.67                | -1.62 | XR         |
| UL6WQH  |           | 90.46      | -2.03                | -2.00 | 90.90      | -1.74                | -1.69 | XX         |
| WQD44R  |           | 93.44      | 0.95                 | 0.93  | 93.46      | 0.82                 | 0.80  | BJ         |
| XCNLQE  |           | 91.41      | -1.08                | -1.06 | 91.56      | -1.08                | -1.05 | XR         |
| ZB6EH3  |           | 93.33      | 0.83                 | 0.82  | 93.39      | 0.74                 | 0.72  | BJ         |

#### Summary Statistics

##### Grand Means

##### Sample D13

92.492 Percent

##### Sample D14

92.643 Percent

##### Std Dev Btwn Labs

1.016 Percent

1.028 Percent

Statistics based on 22 of 22 reporting participants

Sample D13: LDPE & Sample D14: LDPE

#### Key to Instrument Codes Reported by Participants

BJ BYK-Gardner Haze-Gard Plus/i

XR X-Rite Spectrocolorimeter (any model)

XX Instrument make/model not specified by lab



# Plastics Interlaboratory Testing Program

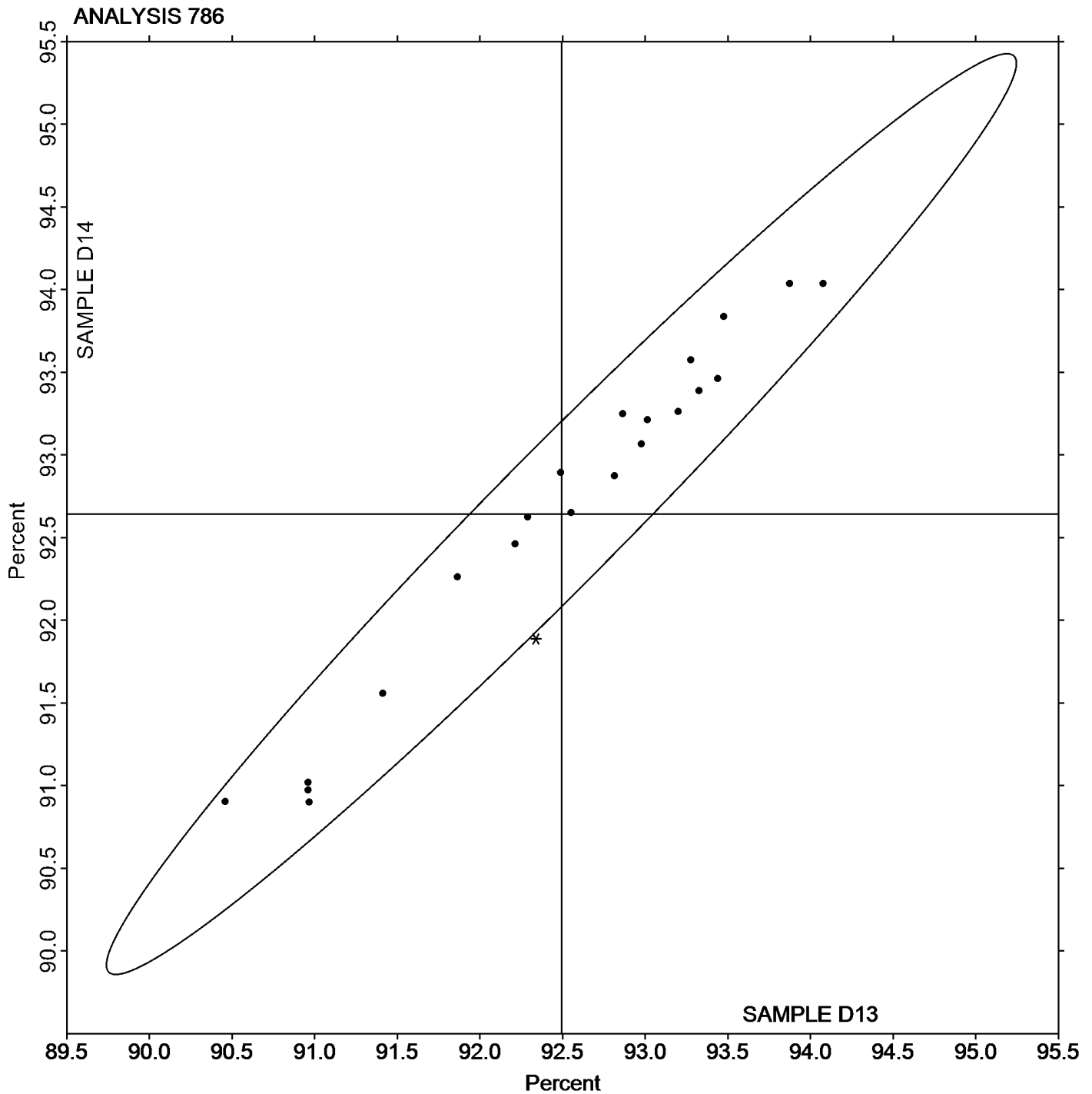
Analysis 786

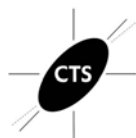
Total Luminous Transmittance of Film

Report #136

4th Qtr 2025

Grand Mean Sample D13: 92.492 Percent    Grand Mean Sample D14: 92.643 Percent





# Plastics Interlaboratory Testing Program

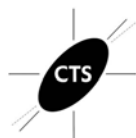
## Analysis 790

### Notched Izod Impact - ft.lbf/in

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample S13 |                      |       | Sample S14 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 2HJMJ4  | *         | 2.25       | 0.35                 | 1.50  | 2.16       | 0.25                 | 1.08  | CE         |
| 3AM886  |           | 1.92       | 0.01                 | 0.06  | 1.93       | 0.02                 | 0.10  | WZ         |
| 473EV3  |           | 1.87       | -0.03                | -0.12 | 1.85       | -0.06                | -0.27 | WZ         |
| 4VJ3JP  |           | 1.66       | -0.24                | -1.03 | 1.67       | -0.23                | -1.02 | WZ         |
| 6KECD9  |           | 1.84       | -0.06                | -0.27 | 1.93       | 0.02                 | 0.08  | TO         |
| 6W8YJ3  |           | 1.54       | -0.36                | -1.53 | 1.54       | -0.37                | -1.61 | TO         |
| 6WANPL  |           | 1.56       | -0.34                | -1.45 | 1.62       | -0.29                | -1.25 | RR         |
| 7PLC2J  |           | 1.85       | -0.05                | -0.21 | 1.83       | -0.08                | -0.36 | CE         |
| 7W7HLW  |           | 1.97       | 0.07                 | 0.28  | 1.90       | 0.00                 | -0.02 | BA         |
| 7XH3TK  |           | 1.85       | -0.05                | -0.22 | 1.89       | -0.01                | -0.07 | TO         |
| 8QWMHM  |           | 1.94       | 0.04                 | 0.15  | 1.99       | 0.08                 | 0.35  | WZ         |
| 8XD2KR  | X         | 1.36       | -0.55                | -2.33 | 1.68       | -0.23                | -0.99 | DY         |
| 9LGC4J  |           | 1.94       | 0.03                 | 0.15  | 1.95       | 0.04                 | 0.18  | TY         |
| AHEV6U  |           | 1.88       | -0.02                | -0.09 | 1.89       | -0.02                | -0.09 | WZ         |
| CJJ3KR  |           | 1.77       | -0.13                | -0.56 | 1.77       | -0.14                | -0.60 | TO         |
| CJKUFE  |           | 2.08       | 0.18                 | 0.76  | 2.13       | 0.22                 | 0.95  | TM         |
| CK9KDC  |           | 1.91       | 0.00                 | 0.02  | 1.94       | 0.04                 | 0.15  | TO         |
| DBZD2A  |           | 1.89       | -0.01                | -0.05 | 1.90       | -0.01                | -0.06 | CE         |
| DXCCHH  |           | 1.82       | -0.08                | -0.35 | 1.82       | -0.08                | -0.37 | WZ         |
| DYT9BG  |           | 1.82       | -0.09                | -0.37 | 1.79       | -0.12                | -0.52 | TO         |
| EM9HMW  |           | 1.48       | -0.42                | -1.79 | 1.48       | -0.43                | -1.87 | TY         |
| EU83RC  |           | 1.70       | -0.21                | -0.88 | 1.69       | -0.22                | -0.94 | IN         |
| F7HZAL  |           | 1.83       | -0.07                | -0.31 | 1.87       | -0.04                | -0.16 | CE         |
| F8BQEZ  |           | 1.82       | -0.08                | -0.33 | 1.79       | -0.12                | -0.51 | TM         |
| HARWRR  | X         | 2.00       | 0.09                 | 0.41  | 2.16       | 0.25                 | 1.11  | TO         |
| K7QBFF  |           | 2.01       | 0.11                 | 0.45  | 2.05       | 0.14                 | 0.60  | WZ         |
| LBEDX7  | X         | 2.37       | 0.47                 | 2.01  | 2.08       | 0.17                 | 0.72  | TY         |
| LER6Y7  |           | 1.81       | -0.10                | -0.41 | 1.89       | -0.02                | -0.09 | IN         |
| LHFPU3  |           | 2.06       | 0.15                 | 0.66  | 2.05       | 0.14                 | 0.60  | IN         |
| LTA3RE  |           | 2.04       | 0.14                 | 0.58  | 1.94       | 0.04                 | 0.15  | IN         |
| LX46TT  |           | 1.54       | -0.37                | -1.56 | 1.55       | -0.36                | -1.56 | TO         |
| LX7UZH  |           | 2.37       | 0.47                 | 2.00  | 2.41       | 0.50                 | 2.19  | CE         |
| LZWXQW  | *         | 2.50       | 0.60                 | 2.57  | 2.51       | 0.60                 | 2.63  | XX         |
| M4CMRL  |           | 1.71       | -0.19                | -0.83 | 1.76       | -0.15                | -0.66 | TO         |
| M4PEGW  |           | 1.88       | -0.02                | -0.09 | 1.92       | 0.01                 | 0.03  | TO         |



# Plastics Interlaboratory Testing Program

## Analysis 790

### Notched Izod Impact - ft.lbf/in

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample S13 |                      |       | Sample S14 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| MGYT24  |           | 2.05       | 0.15                 | 0.63  | 2.05       | 0.15                 | 0.63  | TM         |
| NXJ32B  |           | 1.87       | -0.03                | -0.15 | 1.83       | -0.07                | -0.33 | TO         |
| NXKVXX  | X         | 2.21       | 0.31                 | 1.31  | 2.48       | 0.57                 | 2.49  | BA         |
| NYDT8P  |           | 1.86       | -0.04                | -0.19 | 1.88       | -0.02                | -0.11 | TO         |
| PTL437  | *         | 2.64       | 0.74                 | 3.17  | 2.65       | 0.74                 | 3.22  | TO         |
| TBQKXU  |           | 1.71       | -0.19                | -0.83 | 1.75       | -0.16                | -0.70 | TO         |
| TU7RDW  |           | 1.82       | -0.09                | -0.37 | 1.80       | -0.11                | -0.48 | TO         |
| U6HGQR  |           | 2.00       | 0.10                 | 0.42  | 1.98       | 0.08                 | 0.33  | CE         |
| UADAKM  | X         | 1.66       | -0.24                | -1.04 | 1.86       | -0.05                | -0.20 | XX         |
| UGCUN4  |           | 2.07       | 0.17                 | 0.71  | 2.00       | 0.09                 | 0.38  | TM         |
| XDLUYX  | X         | 1.92       | 0.02                 | 0.09  | 1.55       | -0.36                | -1.56 | XX         |
| Y7TYMR  |           | 2.02       | 0.12                 | 0.50  | 2.04       | 0.13                 | 0.56  | XX         |
| YQ2AE3  |           | 1.76       | -0.14                | -0.62 | 1.78       | -0.13                | -0.58 | TM         |

#### Summary Statistics

##### Grand Means

##### Sample S13

1.902 ft.lbf/in

##### Sample S14

1.909 ft.lbf/in

##### Std Dev Btwn Labs

0.234 ft.lbf/in

0.229 ft.lbf/in

Statistics based on 42 of 48 reporting participants

Sample S13: HIPS & Sample S14: HIPS

#### Comments on Assigned Data Flags for Test #790

UADAKM (X) - Inconsistent in testing between samples.

HARWRR (X) - Inconsistent in testing between samples.

8XD2KR (X) - Inconsistent in testing between samples.

XDLUYX (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample S14.

LBEDX7 (X) - Inconsistent in testing between samples. Inconsistent within the determinations of both samples.

NXKVXX (X) - Inconsistent in testing between samples.

#### Key to Instrument Codes Reported by Participants

BA Baldwin

DY Dynatup

RR Ray-Ran Polymer Testing Equipment

TO Tinius Olsen

WZ Zwick

CE Ceast

IN Instron

TM TMI

TY Toyoseiki

XX Instrument manufacturer not specified by lab



# Plastics Interlaboratory Testing Program

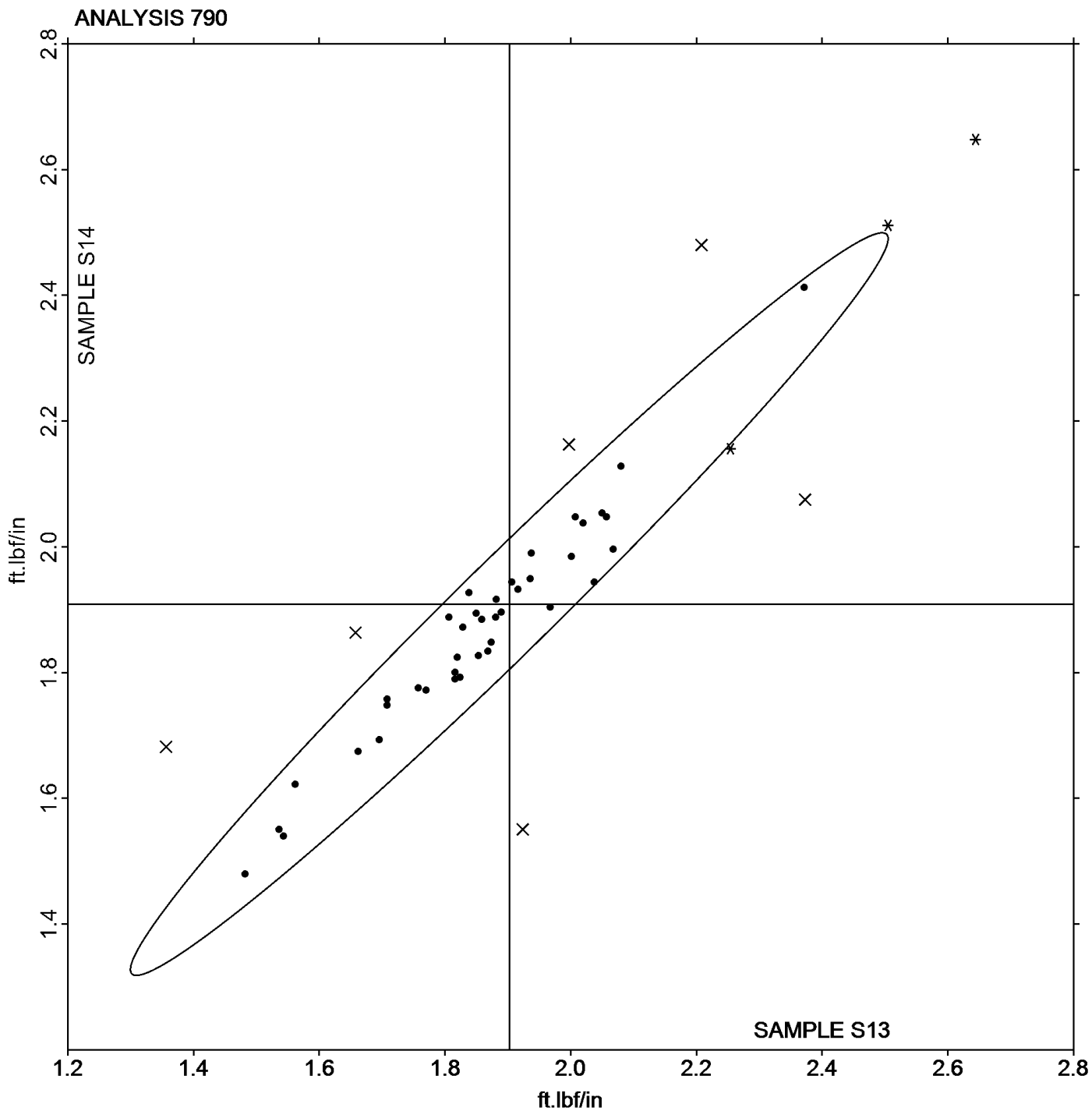
Analysis 790

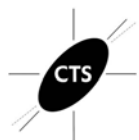
Notched Izod Impact - ft.lbf/in

Report #136

4th Qtr 2025

Grand Mean Sample S13: 1.9021 ft.lbf/in    Grand Mean Sample S14: 1.9090 ft.lbf/in





# Plastics Interlaboratory Testing Program

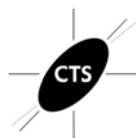
## Analysis 791

### Notched Izod Impact - kJ/m ^ 2

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample Z13 |                      |       | Sample Z14 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 2HJMJ4  |           | 45.48      | 1.72                 | 0.59  | 45.26      | 1.37                 | 0.41  | CE         |
| 4X7TGM  |           | 44.87      | 1.11                 | 0.38  | 45.41      | 1.52                 | 0.46  | TO         |
| 7BBKLT  |           | 40.87      | -2.89                | -0.99 | 41.03      | -2.86                | -0.86 | TO         |
| 7ZQBXY  |           | 45.44      | 1.67                 | 0.57  | 47.71      | 3.81                 | 1.14  | CE         |
| 887BUM  |           | 43.90      | 0.14                 | 0.05  | 43.80      | -0.09                | -0.03 | WZ         |
| 9LGC4J  |           | 42.29      | -1.47                | -0.50 | 42.25      | -1.65                | -0.49 | XX         |
| AHEV6U  |           | 46.51      | 2.75                 | 0.94  | 47.19      | 3.29                 | 0.99  | WZ         |
| BF3HZX  |           | 44.43      | 0.67                 | 0.23  | 43.89      | -0.01                | 0.00  | CE         |
| CBQUZ2  |           | 46.55      | 2.79                 | 0.95  | 46.45      | 2.55                 | 0.77  | CE         |
| CK9KDC  |           | 40.28      | -3.48                | -1.19 | 39.54      | -4.35                | -1.31 | TO         |
| CKWUD9  |           | 46.32      | 2.56                 | 0.87  | 47.08      | 3.18                 | 0.96  | TO         |
| D6XA9Q  |           | 40.67      | -3.09                | -1.05 | 40.44      | -3.45                | -1.04 | TM         |
| DWGTGG  |           | 43.98      | 0.22                 | 0.07  | 42.52      | -1.37                | -0.41 | TO         |
| DXCCHH  |           | 43.01      | -0.75                | -0.26 | 43.87      | -0.03                | -0.01 | WZ         |
| DYT9BG  |           | 44.42      | 0.65                 | 0.22  | 46.15      | 2.25                 | 0.68  | TO         |
| EJA3E9  |           | 43.87      | 0.11                 | 0.04  | 43.62      | -0.28                | -0.08 | TO         |
| F8BQEZ  |           | 39.78      | -3.98                | -1.36 | 39.26      | -4.64                | -1.39 | XX         |
| FFNMJ8  |           | 45.11      | 1.35                 | 0.46  | 45.74      | 1.85                 | 0.55  | IN         |
| JFCEMF  |           | 39.24      | -4.52                | -1.54 | 39.18      | -4.72                | -1.41 | XX         |
| K7QBFF  | X         | 49.69      | 5.93                 | 2.02  | 45.45      | 1.55                 | 0.47  | WZ         |
| KCQRNZ  | X         | 40.42      | -3.34                | -1.14 | 45.38      | 1.49                 | 0.45  | TO         |
| KUDBJM  |           | 46.15      | 2.39                 | 0.81  | 47.60      | 3.71                 | 1.11  | WZ         |
| LBEDX7  |           | 42.21      | -1.55                | -0.53 | 43.17      | -0.73                | -0.22 | TY         |
| LC844K  |           | 45.37      | 1.61                 | 0.55  | 44.78      | 0.89                 | 0.27  | CE         |
| LLDBJK  |           | 47.30      | 3.54                 | 1.21  | 47.42      | 3.53                 | 1.06  | TO         |
| LM2TC6  |           | 45.20      | 1.44                 | 0.49  | 45.06      | 1.17                 | 0.35  | CE         |
| LM9V96  |           | 42.39      | -1.37                | -0.47 | 43.39      | -0.50                | -0.15 | TM         |
| LX46TT  |           | 44.12      | 0.36                 | 0.12  | 45.58      | 1.69                 | 0.51  | TO         |
| M4T4KT  |           | 42.88      | -0.88                | -0.30 | 42.36      | -1.53                | -0.46 | XX         |
| N3UY4Y  |           | 43.45      | -0.31                | -0.11 | 43.02      | -0.88                | -0.26 | WZ         |
| PTL437  | *         | 44.76      | 1.00                 | 0.34  | 48.02      | 4.13                 | 1.24  | TO         |
| QXUNNH  |           | 47.27      | 3.51                 | 1.20  | 46.26      | 2.37                 | 0.71  | WZ         |
| TNEKUN  |           | 46.70      | 2.94                 | 1.00  | 45.55      | 1.66                 | 0.50  | CE         |
| TU7RDW  |           | 46.00      | 2.24                 | 0.76  | 46.26      | 2.37                 | 0.71  | TO         |
| U9JJE9  |           | 44.41      | 0.65                 | 0.22  | 43.03      | -0.87                | -0.26 | CE         |



# Plastics Interlaboratory Testing Program

## Analysis 791

### Notched Izod Impact - kJ/m<sup>2</sup>

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample Z13 |                      |       | Sample Z14 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| UADAKM  | *         | 36.48      | -7.28                | -2.49 | 35.04      | -8.85                | -2.66 | XX         |
| UUG66X  |           | 46.50      | 2.74                 | 0.94  | 47.35      | 3.45                 | 1.04  | TY         |
| V2WB8M  |           | 46.47      | 2.71                 | 0.92  | 46.34      | 2.45                 | 0.73  | IN         |
| XDLUYX  | *         | 34.26      | -9.50                | -3.24 | 33.48      | -10.41               | -3.12 | XX         |
| XK4ZXQ  |           | 42.92      | -0.84                | -0.29 | 43.23      | -0.67                | -0.20 | TO         |
| Y679PU  |           | 47.38      | 3.62                 | 1.24  | 47.30      | 3.41                 | 1.02  | XX         |
| YQ2AE3  |           | 41.23      | -2.53                | -0.86 | 41.16      | -2.73                | -0.82 | TM         |

#### Summary Statistics

##### Grand Means

Sample Z13  
43.762 kJ/m<sup>2</sup>

Sample Z14  
43.894 kJ/m<sup>2</sup>

##### Std Dev Btwn Labs

2.929 kJ/m<sup>2</sup>

3.333 kJ/m<sup>2</sup>

Statistics based on 40 of 42 reporting participants

Sample Z13: ABS/PC & Sample Z14: ABS/PC

#### Comments on Assigned Data Flags for Test #791

K7QBFF (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample Z13.

KCQRNZ (X) - Inconsistent in testing between samples.

#### Key to Instrument Codes Reported by Participants

CE Ceast

IN Instron

TM TMI

TO Tinius Olsen

TY Toyoseiki

WZ Zwick

XX Instrument manufacturer not specified by lab



# Plastics Interlaboratory Testing Program

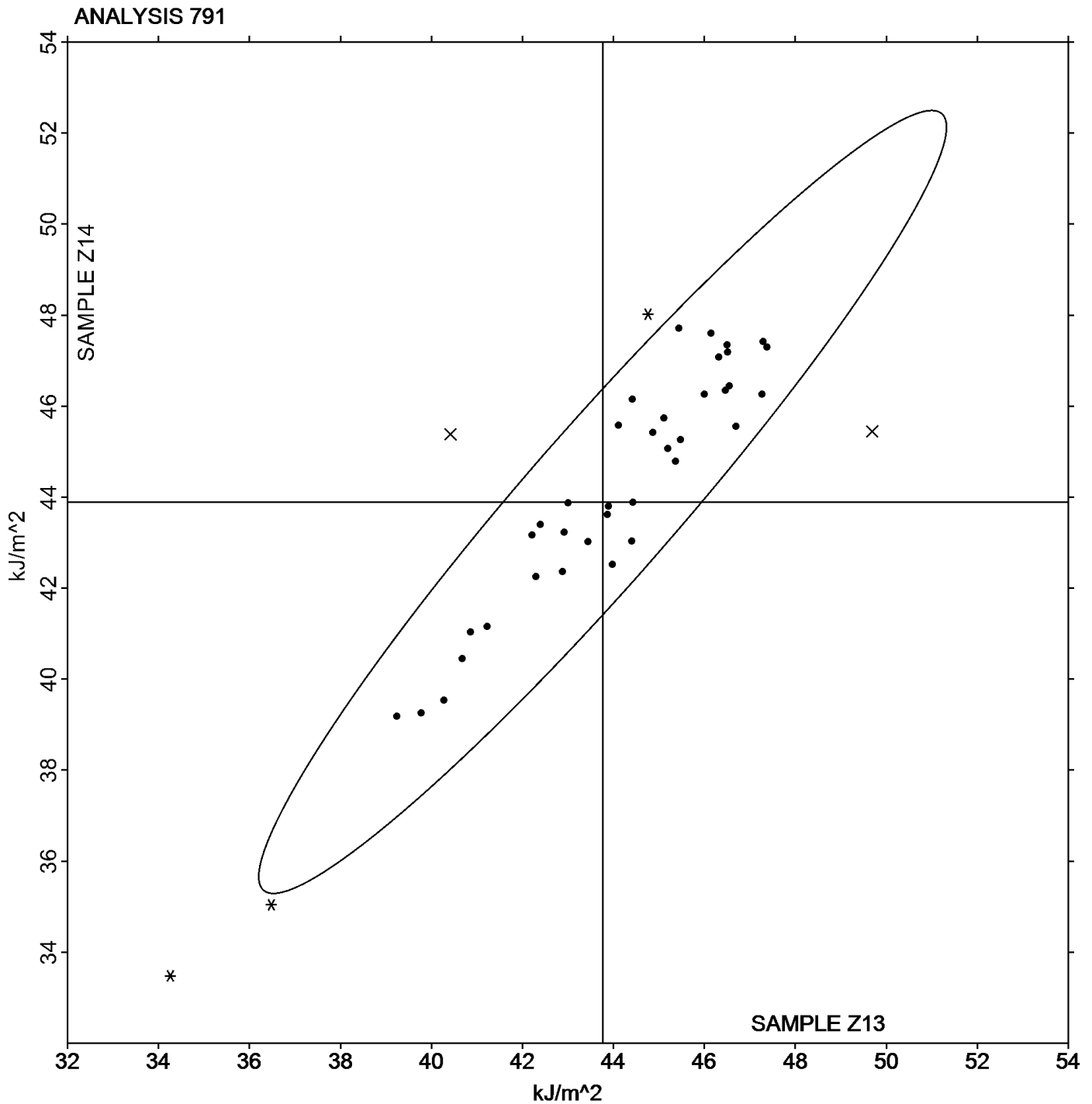
Analysis 791

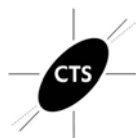
Notched Izod Impact -  $\text{kJ/m}^2$

Report #136

4th Qtr 2025

Grand Mean Sample Z13:  $43.762 \text{ kJ/m}^2$  Grand Mean Sample Z14:  $43.894 \text{ kJ/m}^2$





# Plastics Interlaboratory Testing Program

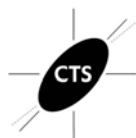
## Analysis 792

### Notched Charpy Impact - kJ/m ^ 2

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample M13 |                      |       | Sample M14 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 29WLZ9  |           | 8.55       | 0.07                 | 0.19  | 8.78       | 0.24                 | 0.61  | TO         |
| 2HJMJ4  |           | 8.45       | -0.03                | -0.08 | 8.42       | -0.11                | -0.29 | CE         |
| 34J4JR  |           | 8.41       | -0.07                | -0.19 | 8.70       | 0.16                 | 0.41  | CE         |
| 3VLBBX  |           | 8.10       | -0.38                | -1.06 | 8.06       | -0.48                | -1.20 | TO         |
| 473EV3  |           | 9.05       | 0.57                 | 1.58  | 8.96       | 0.43                 | 1.06  | WZ         |
| 4VJ3JP  |           | 8.10       | -0.38                | -1.05 | 8.26       | -0.28                | -0.71 | WZ         |
| 4X7TGM  |           | 8.76       | 0.28                 | 0.78  | 8.88       | 0.34                 | 0.86  | TO         |
| 6W8YJ3  |           | 8.27       | -0.21                | -0.57 | 8.24       | -0.29                | -0.73 | TO         |
| 7BBKLT  |           | 9.09       | 0.61                 | 1.68  | 9.11       | 0.57                 | 1.43  | TO         |
| 7WQY2Y  |           | 8.90       | 0.41                 | 1.15  | 9.24       | 0.71                 | 1.76  | TO         |
| 7ZQBXY  |           | 9.11       | 0.63                 | 1.74  | 9.34       | 0.80                 | 2.00  | CE         |
| 887BUM  |           | 8.92       | 0.44                 | 1.21  | 9.02       | 0.48                 | 1.20  | WZ         |
| 8QUULZ  |           | 8.28       | -0.20                | -0.55 | 8.39       | -0.15                | -0.38 | WZ         |
| 9LGC4J  |           | 8.19       | -0.29                | -0.80 | 8.16       | -0.38                | -0.95 | TY         |
| AHEV6U  |           | 8.59       | 0.11                 | 0.29  | 8.68       | 0.14                 | 0.35  | WZ         |
| B9MYFX  |           | 8.15       | -0.34                | -0.93 | 8.16       | -0.38                | -0.95 | XX         |
| BF3HZX  |           | 8.55       | 0.07                 | 0.19  | 8.76       | 0.22                 | 0.56  | CE         |
| CBQUZ2  |           | 8.21       | -0.28                | -0.76 | 8.22       | -0.31                | -0.79 | CE         |
| CJJ3KR  |           | 8.53       | 0.04                 | 0.12  | 8.54       | 0.00                 | 0.01  | TO         |
| DWGTGG  |           | 8.44       | -0.04                | -0.11 | 8.42       | -0.12                | -0.30 | TO         |
| DXCCHH  |           | 8.14       | -0.34                | -0.95 | 8.18       | -0.35                | -0.89 | WZ         |
| EJA3E9  |           | 8.16       | -0.32                | -0.89 | 8.22       | -0.32                | -0.80 | TO         |
| EM9HMW  |           | 8.68       | 0.20                 | 0.56  | 8.65       | 0.11                 | 0.28  | TY         |
| F7HZAL  |           | 8.36       | -0.12                | -0.33 | 8.41       | -0.13                | -0.32 | CE         |
| F8BQEZ  | *         | 9.55       | 1.07                 | 2.95  | 9.67       | 1.13                 | 2.82  | XX         |
| FFNMJ8  | *         | 8.71       | 0.23                 | 0.64  | 9.10       | 0.56                 | 1.40  | IN         |
| GED3BW  |           | 8.49       | 0.01                 | 0.02  | 8.58       | 0.05                 | 0.11  | TO         |
| HARWRR  | X         | 10.03      | 1.55                 | 4.29  | 9.93       | 1.39                 | 3.48  | TO         |
| HFFKMX  |           | 8.31       | -0.17                | -0.48 | 8.30       | -0.23                | -0.59 | TO         |
| K7QBFF  |           | 8.23       | -0.25                | -0.69 | 8.33       | -0.21                | -0.53 | WZ         |
| KCQRNZ  |           | 8.52       | 0.04                 | 0.11  | 8.46       | -0.08                | -0.21 | TO         |
| LER6Y7  |           | 8.74       | 0.26                 | 0.72  | 8.65       | 0.11                 | 0.27  | XX         |
| LLDBJK  |           | 8.34       | -0.14                | -0.40 | 8.56       | 0.03                 | 0.06  | TO         |
| LM2TC6  |           | 8.63       | 0.15                 | 0.42  | 8.61       | 0.07                 | 0.17  | CE         |
| LM9V96  | X         | 7.62       | -0.86                | -2.38 | 9.29       | 0.75                 | 1.87  | TM         |



# Plastics Interlaboratory Testing Program

## Analysis 792

### Notched Charpy Impact - kJ/m<sup>2</sup>

Report #136

4th Qtr 2025

| WebCode | Data Flag | Sample M13 |                      |        | Sample M14 |                      |        | Instr Code |
|---------|-----------|------------|----------------------|--------|------------|----------------------|--------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV    | Lab Mean   | Diff from Grand Mean | CPV    |            |
| LX7UZH  |           | 8.91       | 0.43                 | 1.19   | 8.97       | 0.43                 | 1.08   | CE         |
| M4PEGW  |           | 8.39       | -0.09                | -0.25  | 8.15       | -0.39                | -0.97  | TO         |
| MYVKJV  |           | 8.18       | -0.30                | -0.83  | 8.10       | -0.43                | -1.09  | WZ         |
| N3UY4Y  |           | 7.87       | -0.61                | -1.68  | 8.02       | -0.51                | -1.29  | WZ         |
| NXKVXX  | X         | 11.33      | 2.85                 | 7.89   | 11.33      | 2.79                 | 6.97   | XX         |
| PTL437  | X         | 49.20      | 40.72                | 112.75 | 51.66      | 43.12                | 107.72 | TO         |
| QXUNNH  | *         | 9.44       | 0.95                 | 2.64   | 9.53       | 0.99                 | 2.48   | WZ         |
| TNEKUN  |           | 8.45       | -0.03                | -0.09  | 8.36       | -0.18                | -0.45  | CE         |
| TQMNFY  |           | 8.74       | 0.26                 | 0.72   | 8.61       | 0.08                 | 0.19   | WZ         |
| TU7RDW  |           | 8.35       | -0.13                | -0.37  | 8.39       | -0.15                | -0.38  | TO         |
| U9JJE9  |           | 8.43       | -0.05                | -0.15  | 8.45       | -0.09                | -0.23  | CE         |
| UADAKM  |           | 8.05       | -0.43                | -1.19  | 8.12       | -0.42                | -1.06  | XX         |
| UL6WQH  |           | 8.33       | -0.16                | -0.43  | 8.59       | 0.05                 | 0.12   | TO         |
| UUG66X  |           | 8.25       | -0.23                | -0.65  | 8.39       | -0.15                | -0.36  | TY         |
| XDLUYX  |           | 8.11       | -0.37                | -1.02  | 8.03       | -0.51                | -1.28  | XX         |
| XGGNRT  |           | 8.26       | -0.22                | -0.61  | 8.26       | -0.27                | -0.69  | TO         |
| XK4ZXQ  |           | 8.17       | -0.31                | -0.87  | 8.14       | -0.40                | -1.00  | TO         |
| Y679PU  |           | 8.68       | 0.19                 | 0.54   | 8.75       | 0.21                 | 0.52   | WZ         |
| YBNTKT  |           | 7.95       | -0.53                | -1.47  | 7.98       | -0.56                | -1.40  | XX         |

#### Summary Statistics

##### Sample M13

##### Sample M14

#### Grand Means

8.482 kJ/m<sup>2</sup>

8.538 kJ/m<sup>2</sup>

#### Stnd Dev Btwn Labs

0.361 kJ/m<sup>2</sup>

0.400 kJ/m<sup>2</sup>

Statistics based on 50 of 54 reporting participants

Sample M13: HIPS & Sample M14: HIPS

#### Comments on Assigned Data Flags for Test #792

HARWRR (X) - Data for both samples are high. Possible Systematic Error.

PTL437 (X) - Extreme data.

NXKVXX (X) - Data for both samples are high. Possible Systematic Error.

LM9V96 (X) - Inconsistent in testing between samples. Inconsistent within the determinations of both samples.



## Plastics Interlaboratory Testing Program

### Analysis 792

#### Notched Charpy Impact - $\text{kJ/m}^2$

Report #136

4th Qtr 2025

#### Key to Instrument Codes Reported by Participants

CE Ceast

TM TMI

TY Toyoseiki

XX Instrument manufacturer not specified by lab

IN Instron

TO Tinius Olsen

WZ Zwick



# Plastics Interlaboratory Testing Program

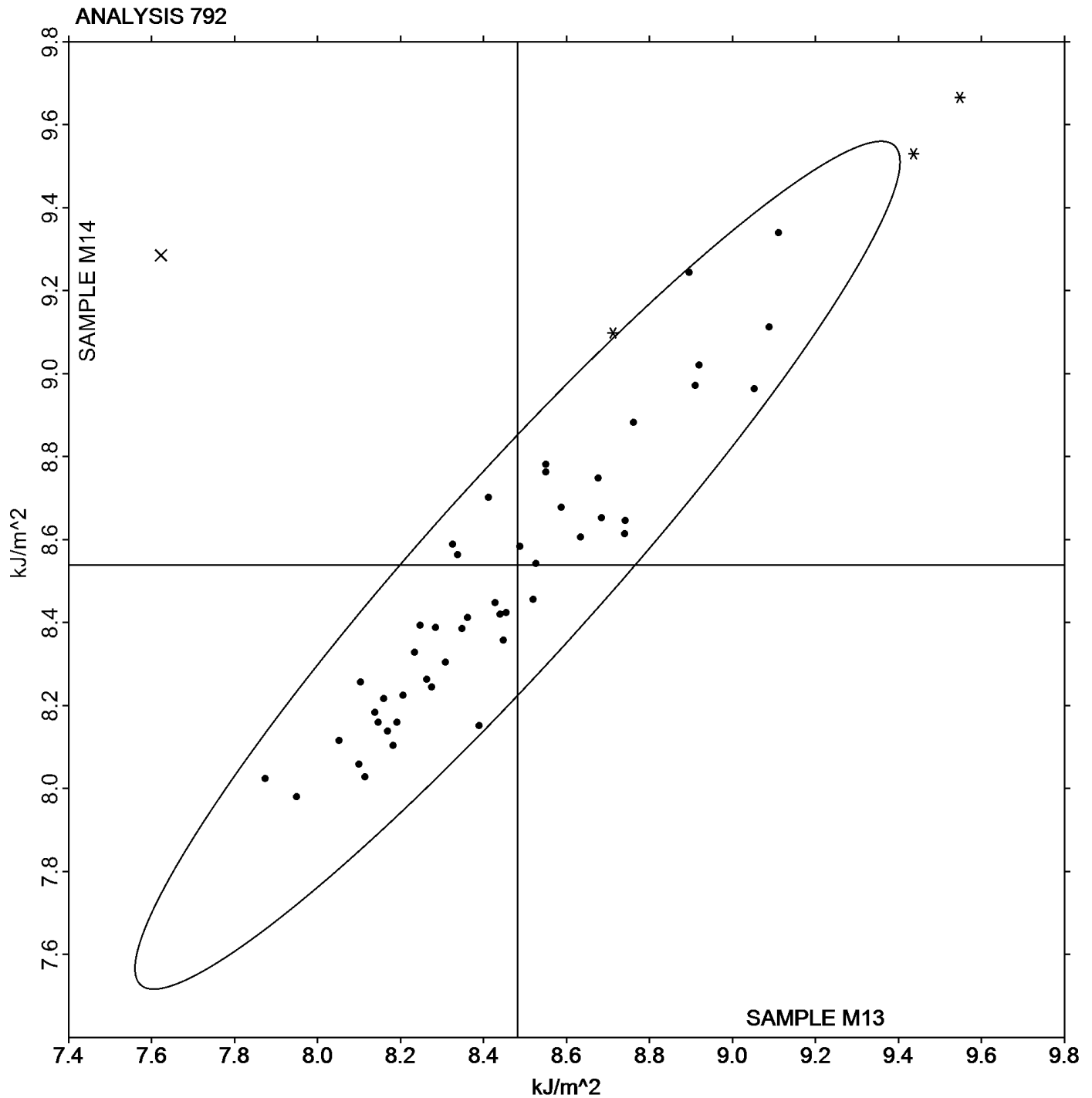
Analysis 792

Notched Charpy Impact -  $\text{kJ/m}^2$

Report #136

4th Qtr 2025

Grand Mean Sample M13:  $8.4815 \text{ kJ/m}^2$  Grand Mean Sample M14:  $8.5385 \text{ kJ/m}^2$



-End of Report-