

Containerboard Interlaboratory Testing Program

Participant Summary Report #672 - September 2025

[Introduction to the Containerboard Program](#)

[Explanation of Tables and Definitions of Terms](#)

Analysis	Sample	Analysis Name
<u>201</u>	<u>BO18</u>	<u>Top to Bottom Box Compression Strength, Corrugated Boxes</u>
<u>202</u>	<u>EC17</u>	<u>Edgewise Compressive Strength, by T811, Corrugated Board</u>
<u>203</u>	<u>EC17</u>	<u>Edgewise Compressive Strength by T839, Corrugated Board</u>
<u>205</u>	<u>42L4</u>	<u>Bursting Strength (Mullen), 42 lb Linerboard</u>
<u>206</u>	<u>52M1</u>	<u>Bursting Strength (Mullen), 52 lb Linerboard</u>
<u>215</u>	<u>42L4</u>	<u>Ring Crush, 42 lb Linerboard</u>
<u>216</u>	<u>52M1</u>	<u>Ring Crush, 52 lb Linerboard</u>
<u>223</u>	<u>42L4</u>	<u>STFI, 42 lb Linerboard</u>
<u>224</u>	<u>52M1</u>	<u>STFI, 52 lb Linerboard</u>
<u>228</u>	<u>42L</u>	<u>Roughness - Stylus Method, 42 lb Linerboard</u>
<u>229</u>	<u>42L4</u>	<u>Roughness - Sheffield Method, 42 lb Linerboard</u>
<u>231</u>	<u>42L</u>	<u>Internal Bond, 42 lb Linerboard</u>
<u>234</u>	<u>42L</u>	<u>COF Inclined Plane (Slide Angle), 42 lb Linerboard</u>
<u>237</u>	<u>42L</u>	<u>Air Resistance, 42 lb Linerboard</u>
<u>240</u>	<u>CM13</u>	<u>Flat Crush Strength (CMT), 26 lb Corrugating Medium</u>
<u>250</u>	<u>CM13</u>	<u>Fluted Edge Crush Strength (CFC), 26 lb Corrugating Medium</u>
<u>255</u>	<u>CM13</u>	<u>Ring Crush (RCT), 26 lb Corrugating Medium</u>
<u>261</u>	<u>CM13</u>	<u>STFI, 26 lb Corrugating Medium</u>

Collaborative Testing Services, Inc.
CONTAINERBOARD INTERLABORATORY TESTING PROGRAM

INTRODUCTION

The Interlaboratory Testing Program for Containerboard is operated and maintained by Collaborative Testing Services, Inc. (CTS), with technical guidance provided by the Containerboard Group of the American Forest & Paper Association. The tests are conducted on a monthly basis.

For these tests samples of linerboard and corrugating medium, that each have been separately randomized from narrow rolls, are distributed for testing weekly. One weight of medium (26 lb.) is used for Concora Flat Crush Strength, Corrugated Fluted Crush Strength, Ring Crush Strength, and STFI Compression. Two weights of linerboard are tested each month for Mullen Burst, Ring Crush, and STFI Compression: 42 lb. - every month; 31 lb. and 52 lb. - alternate months. The participants return their test results for analysis and receive a monthly report.

Please refer to the section, "EXPLANATION OF TABLES", for definitions of terms and guidelines to interpreting the results.

USE OF AVERAGE MEAN AS A COLLABORATIVE REFERENCE VALUE

The samples of linerboard and corrugating medium, which have been randomized and placed in sealed packages for distribution in this program, may be used as collaborative reference materials. The values most representative of each material are the Cumulative Grand Means in the latest reports, given at the bottom right of each table. Comparisons can only be made within one lot of material; therefore check your measurements against the Cumulative Grand Means with the same lot code as on the packages being tested.

Material	Lot Code	Dates in Use
26# Corrugating Medium	CM13	September 2023 - Current
	CM12	June 2022 - August 2023
31# Linerboard	31K1	August 2024 - Current
	35E3	June 2022 - June 2024
42# Linerboard	42L4	August 2025 - Current
	42L3	March 2025 - July 2025
52# Linerboard	52M1	July 2025 - Current
	52J2	September 2024 - May 2025

ABOUT CTS

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, hemp, 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 the CTS programs.

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EXPLANATION OF TABLES

Each analysis is divided into three time spans. On the left side of the table are the individual laboratory results for each week of the month; in the center are each lab's statistical data for the month; and on the right are each lab's cumulative data for up to 16 weeks. At the bottom of the table are the consensus statistics for all the participants for each of the three time spans.

Definitions of Terms Used

Weekly Results

Laboratory Data

- WebCode - A six character laboratory identifier used to maintain information on a confidential basis. The WebCode is unique for each cycle and will change for each report. Your WebCode can be found in your Individual Report (Current Month Performance Report) and your datasheet.
- Weekly Means - The average of the test results obtained by the participant for each week that data were reported.

Consensus Data

- Wk Mean - For each week, the average of the Means for all the participants, excluding those laboratories flagged with an 'X'.
- Avg SD - For each week, the average of the within-laboratory standard deviations (SD's) for all the participants, excluding those laboratories flagged with an 'X'. The Avg SD is an indication of the variation of measurements within an average laboratory.
- SD btwn Labs - For each week, the standard deviation of the laboratory Means about the Wk Mean, excluding those laboratories flagged with an 'X'. The SD LABS is an indication of the precision of measurement between the laboratories.
- Labs Incl - The number of laboratory Means included in the Wk Mean for that week.
- Labs Excl - The number of laboratory Means reported but excluded from the Wk Mean for that week because of outlying results ('X' following Mean).
- Labs not rcvd - The number of laboratories failing to report for that week.

Monthly Results

Laboratory Data

- Mean - For each laboratory, the average of all the weekly Means reported for this month.
- CPV - **Comparative Performance Value**, an indication of how well a laboratory's Mean agrees with the other participants. The CPV is a ratio indicating the number of standard deviations from the consensus mean (Monthly Mean). The closer a laboratory's CPV is to zero, the more consistent its results are with the other participants' data.
- SD - For each laboratory, the average of the weekly within-lab standard deviations (SD's) for all reported Weekly Means this month.
- SD Wk - The standard deviation among the laboratory's weekly Means, including those Means flagged with an 'X'. The SD Wks is an indication of that laboratory's ability to obtain constant results from week to week.

Consensus Data

- Month Mean - The average of the Means for all the participants, excluding those laboratories flagged with an 'X,' reporting data for this month.
- Avg SD - For the current month, the average of the within-laboratory standard deviations (SD's) for all the participants, excluding those laboratories flagged with an 'X'.
- SD btwn Labs - For the current month, the standard deviation of the laboratory Means about the Month Mean, excluding those laboratories flagged with an 'X'.
- SD btwn Group - For the current month, the standard deviation of the laboratory Means within the group about the Month Mean, excluding those laboratories flagged with an 'X'.
- SD btwn Wks - For the current month, the average of the laboratory between week standard deviations (SD Wks) for all the participants, excluding those laboratories flagged with an 'X'.

Cumulative Results

Laboratory Data

Mean	-	For each lab, the average of all the monthly Means reported for the weeks shown.
CPV	-	Comparative Performance Value , an indication of how well a laboratory's cumulative mean agrees with the other participants. The CPV is a ratio indicating the number of standard deviations from the consensus mean (Monthly Mean).
SDr	-	For each laboratory, the average of the weekly within-lab standard deviations (SD's) for the weeks shown.
SD Wk	-	The standard deviation among the laboratory's weekly Means for the weeks shown, including those Means flagged with an 'X'. The SD Wks is an indication of that laboratory's ability to obtain constant results from week to week.
Wks	-	The number of weeks included in the cumulative period.
Inst	-	The two letter instrument code. Codes are summarized at the bottom of the last analysis page.

Consensus Data

Grand Mean	-	The average of the Means for all the participants, excluding those laboratories flagged with an 'X,' reporting data for the number of weeks included in the cumulative period.
Avg SD	-	For the cumulative period, the average of the within-laboratory standard deviations (SD's) for all the participants, excluding those laboratories flagged with an 'X'.
SD btwn Labs	-	For the cumulative period, the standard deviation of the laboratory Means about the Month Mean, excluding those laboratories flagged with an 'X'.
SD btwn Wks	-	For the cumulative period, the average of the laboratory between week standard deviations for all the participants, excluding those laboratories flagged with an 'X'.
Labs Incl	-	The number of laboratory Means included in the Grand Mean.

Any laboratory that receives a 'flag' following a mean or standard deviation should refer to the chart below for an explanation of the data flag symbol:

<u>Flag</u>	<u>Explanation</u>
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Data Flags "X" and "*" indicate a laboratory's performance on an average value differed from the consensus.

Data Flags "H" and "L" indicate a laboratory's performance on a standard deviation differed from the consensus.

Flags assigned to Weekly Means, Monthly Mean and Cumulative Mean:

- | | |
|---|--|
| X | Excluded from the weekly means, monthly means and/or the cumulative mean. Immediate review of data and/or testing procedure is recommended. |
| * | Included in the weekly means, monthly means and/or the cumulative mean; however, lab should review testing procedure and monitor future results. |

Flags assigned to Weekly Means:

- | | |
|---|--|
| H | Indicates high within-laboratory standard deviation. The laboratory SD for each week is not shown, but laboratory average SD and consensus average SD values are shown. |
| L | Indicates low within-laboratory standard deviation. The laboratory SD for each week is not shown, but laboratory monthly average SD and consensus average SD values are shown. |

Flags assigned to Monthly SD Wks and Cumulative SD Wks:

- | | |
|---|--|
| H | Indicates high variability between weekly means (high week-to-week variation). |
| L | Indicates low variability between weekly means (low week-to-week variation). |



Containerboard Interlaboratory Testing Program
 Analysis 201
Top to Bottom Box Compression Strength, Corrugated Boxes - BO18
 TAPPI Official Test Method T804

Report #672
September 2025

WebCode	Monthly Results			Cumulative Results					Inst
	Mean	CPV	SD	Mean	CPV	SD Months	Months		
6ANNWD	476.2	-1.94 *	25.32	508.8	-1.75	51.34 H	4	ET	
6RRZN4	495.2	-1.46	74.17 H	556.6	-0.11	50.23	4	ER	
9P8KMX	528.6	-0.61	43.47	559.5	-0.01	26.34	4	LG	
9VV6RY	600.0	1.21	26.76	585.5	0.88	27.76	4	LO	
BBYDP4	562.3	0.25	22.20	570.2	0.36	13.92	4	EX	
D2A866	642.4	2.28 *	37.25	628.2	2.35 *	19.95	2	LG	
DTFYLZ	512.4	-1.02	42.42	525.6	-1.17	14.60	4	ER	
JMN3ZV	582.9	0.77	23.03	582.8	0.79	14.92	4	EX	
K8CNHX	531.5	-0.53	8.30 L	535.7	-0.82	14.41	3	LS	
LDUEHX	589.5	0.94	20.78	559.8	0.01	32.30	4	LS	
LRC89Q	542.9	-0.24	49.79	548.8	-0.37	10.52	4	EX	
MKMBFK	516.4	-0.92	24.85	556.5	-0.11	28.39	4	ES	
PLC4LN	543.8	-0.22	30.89	554.5	-0.18	10.96	4	LG	
Q4TKDM	535.6	-0.43	44.77	558.8	-0.03	18.80	4	EX	
R23ZKN	607.0	1.39	17.39	600.1	1.38	10.58	4	EX	
R3UYUF	545.1	-0.19	38.43	533.0	-0.92	20.26	4	ER	
UH2XVJ	549.6	-0.07	29.41	550.5	-0.31	15.82	4	ER	
ULZ9RJ	513.6	-0.99	88.88 H	588.4	0.98	50.35 H	4	LM	
UNMTWM	608.6	1.43	35.26	594.4	1.19	16.72	4	LG	
VCAUND	601.0	1.23	32.11	587.4	0.95	13.35	3	LM	
WDYMUF	560.8	0.21	31.23	556.2	-0.12	24.41	4	EX	
XHNFLA	546.4	-0.15	23.73	531.3	-0.98	12.86	4	LG	
XQL67J	526.9	-0.65	22.87	498.5	-2.10 *	23.10	4	TB	
XUJLJD	416.8	-3.45 X	17.66	415.4	-4.95 X	1.98	2	LL	
YWJEQG	552.6	0.00	30.47	553.4	-0.22	2.26 L	4	LG	
Z4F9NF	540.8	-0.30	39.09	567.9	0.28	20.80	4	EX	

Consensus (All Labs) Results

Month Mean	552.48	Grand Mean	559.68
Avg SD	38.39	Avg SD Months	25.13
SD btwn Labs	39.34	SD btwn Labs	29.15
Labs Incl	25	Labs Incl	25

Consensus By Method

Test Method	Group Mean	SD btwn Group	Difference from Grand Mean	Labs Included
Hot melt adhesive sealing	563.60	29.72	11.12	8
Clip sealing	547.25	42.95	5.23	17



Containerboard Interlaboratory Testing Program
Analysis 201

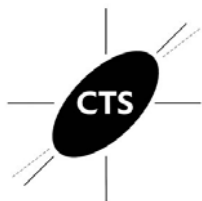
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Top to Bottom Box Compression Strength, Corrugated Boxes - BO18

TAPPI Official Test Method T804

Key to Instrument Codes Reported by Participants

ER	Emerson 6200 Series	ES	Emerson 8510
ET	Emerson 7200	EX	Emerson Apparatus (Model not specified)
LG	TLS / L.A.B. Validator Series	LL	Lansmont 76-5K
LM	Lansmont 122-15k	LO	Lansmont 152-30k
LS	Lansmont Squeezer	TB	TMI Monitor/Compression Tester, Model 17-70



Containerboard Interlaboratory Testing Program
 Analysis 202
Edgewise Compressive Strength, by T811, Corrugated Board - EC17
 TAPPI Official Test Method T811

Report #672
September 2025

WebCode	Monthly Results				Cumulative Results				Inst
	Mean	CPV	SD		Mean	CPV	SD Months	Months	
4NQG7B	35.7	-1.52	1.53		36.6	-1.29	0.85	4	TS
684L78	44.8	0.96	1.07	L	44.8	0.94	1.46	4	XX
9P8KMX	45.2	1.06	1.86		44.5	0.85	1.23	4	EX
BBYDP4	42.0	0.20	1.47		44.8	0.93	1.88	4	LC
LDUEHX	38.8	-0.69	3.64		39.2	-0.58	1.32	4	LD
R3UYUF	38.5	-0.75	5.84	H	36.6	-1.28	1.36	4	EN
WDYMUF	45.6	1.18	1.50		44.5	0.85	1.55	4	LC
YN8Z9L	39.7	-0.44	0.78	L	39.8	-0.43	0.11	2	TS
Consensus (All Labs) Results									
Month Mean			41.29	Grand Mean			41.33		
Avg SD			2.72	Avg SD Months			1.32		
SD btwn Labs			3.68	SD btwn Labs			3.69		
Labs Incl			8	Labs Incl			8		

Key to Instrument Codes Reported by Participants

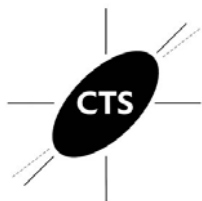
EN	Emerson 2200	EX	Emerson (model not specified)
LC	L&W Crush Tester 48	LD	L&W Crush Tester 248
TS	TMI Digital Crush Tester, Model 17-56	XX	Instrument make/model not specified by lab



Containerboard Interlaboratory Testing Program
 Analysis 203
Edgewise Compressive Strength by T839, Corrugated Board - EC17
 TAPPI Official Test Method T839

Report #672
September 2025

WebCode	Monthly Results				Cumulative Results				Inst
	Mean	CPV	SD		Mean	CPV	SD Months	Months	
268NDH	44.4	-0.22	2.67		45.2	0.03	0.79	4	EM
4NQG7B	40.5	-1.35	3.13	H	41.7	-0.99	0.85	4	TS
684L78	44.6	-0.15	1.95		46.1	0.30	1.62	4	XX
6ANNWD	46.2	0.32	2.27		45.5	0.13	2.09	4	TD
6F9TL8	38.6	-1.89	1.07		38.9	-1.83	1.14	3	BU
6PM8YB	53.2	2.33 *	2.33		51.7	1.96 *	1.09	4	TG
6RRZN4	43.3	-0.53	1.48		45.5	0.13	1.76	4	LD
8MAEW9	42.3	-0.84	1.69		37.0	-2.39 *	4.76 H	3	IX
8WXDMD	46.0	0.25	1.41		46.6	0.44	1.10	4	MK
9P8KMX	47.1	0.56	1.24		46.2	0.33	0.92	4	LY
9VV6RY	42.3	-0.83	1.49		41.5	-1.07	0.80	4	LD
BBYDP4	48.5	0.99	1.32		48.2	0.91	1.09	4	LC
D2A866	44.2	-0.28	1.60		45.2	0.03	1.51	3	BU
DTFY LZ	45.4	0.07	1.16		45.5	0.12	0.74	4	EM
E4BUXZ	33.6	-3.34 X	3.76 H		34.0	-3.27 X	1.16	4	XX
E62V23	48.0	0.83	2.37		48.0	0.85	2.81	4	LC
G2CDPV	44.1	-0.29	1.87		44.9	-0.06	4.11 H	4	EM
HHF8WV	49.4	1.24	1.27		47.5	0.70	2.81	4	EM
HY6BMX	42.6	-0.75	1.89		40.0	-1.51	2.63	4	TD
K8CNHX	42.6	-0.75	1.43		42.4	-0.79	0.19 L	3	EM
LDUEHX	42.9	-0.66	1.16		44.4	-0.20	1.24	4	LD
MKMBFK	47.4	0.66	1.92		46.6	0.45	0.55	4	LD
NTXVGV	50.0	1.41	1.02		46.8	0.52	2.26	4	EM
P9MGZT	46.0	0.25	1.74		48.3	0.96	2.05	4	TE
Q4TKDM	41.0	-1.19	1.51		40.5	-1.36	0.48	4	LD
R23ZKN	47.2	0.59	2.07		46.7	0.46	1.64	4	CT
R3UYUF	41.9	-0.94	2.28		41.3	-1.13	0.79	4	EN
TN7EPD	47.7	0.75	0.91		48.7	1.05	1.00	4	LD
UH2XVJ	40.8	-1.25	2.10		41.0	-1.20	1.40	4	LD
ULZ9RJ	44.7	-0.13	1.43		46.5	0.40	1.60	4	TG
UNMTWM	43.3	-0.54	0.74 L		45.4	0.10	2.49	4	EM
VCAUND	42.2	-0.86	1.54		45.6	0.15	2.32	4	EM
WDYMUF	51.9	1.96 *	1.78		49.2	1.22	3.12	4	LC
XQL67J	48.7	1.04	0.61 L		48.6	1.05	0.48	4	LD
XUJLJD	49.6	1.28	2.84 H		50.6	1.63	1.44	2	EM
YN8Z9L	40.2	-1.45	1.06		40.5	-1.36	0.49	2	TS
YWJEQG	46.4	0.36	1.53		45.0	-0.04	2.77	4	EM



Containerboard Interlaboratory Testing Program
Analysis 203
Edgewise Compressive Strength by T839, Corrugated Board - EC17
TAPPI Official Test Method T839

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September 2025

Consensus (All Labs) Results			
Month Mean	45.14	Grand Mean	45.09
Avg SD	1.76	Avg SD Months	1.93
SD btwn Labs	3.45	SD btwn Labs	3.38
Labs Incl	36	Labs Incl	36

Key to Instrument Codes Reported by Participants

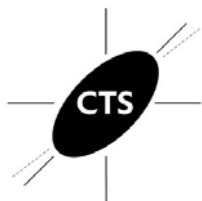
BU	Buchel Digital Crush Tester	CT	Con-Ten
EM	Emerson 1200 Series	EN	Emerson 2200
IX	Instron (model not specified)	LC	L&W Crush Tester 48
LD	L&W Crush Tester 248	LY	L&W 830
MK	Mark-10 ESM303	TD	TMI Digital Crush Tester, Model 17-09
TE	TMI Monitor/Compression Tester, Model 17-60	TG	TMI Digital Crush Tester, 17-76
TS	TMI Digital Crush Tester, Model 17-56	XX	Instrument make/model not specified by lab



Containerboard Interlaboratory Testing Program
Analysis 205
Bursting Strength (Mullen), 42 lb Linerboard - 42L4
 TAPPI Official Test Method T807

Report #672
September 2025

WebCode	Weekly Means				Monthly Results				Cumulative Results					
	Week 1	Week 2	Week 3	Week 4	Mean	CPV	SD	SD Wks	Mean	CPV	SD	SD Wks	Wks	Inst
487Q8C_AL	118.3	116.6	117.3	119.1 H	117.8	1.01	8.1	1.1	117.8	1.07	8.1	1.1	4	AL
4FKPN9_AL	109.9	106.1	110.1	106.4	108.1	-1.54	6.2	2.2	108.0	-1.68	5.8	1.6	8	XX
4J3TUD_AL	115.2	112.8 H	111.9 H	119.4	114.8	0.22	11.6	3.3	114.8	0.23	11.6	3.3	4	AL
4JY934_AL	119.6	118.5	109.8	124.1 *	118.0	1.06	7.7	6.0 H	115.7	0.48	9.5	5.0	8	AL
4MEVGA	119.0	116.8	120.5	114.0	117.6	0.95	7.9	2.9	117.1	0.88	9.3	2.4	8	LC
4YB2B8_AL	110.3 L	113.5 L	110.6	No DATA	111.4	-0.67	3.8	1.7	110.4	-0.98	5.1	1.8	6	AL
6A6NVA	112.0	113.2	112.1	117.3	113.6	-0.09	5.4	2.5	113.6	-0.11	5.4	2.1	8	XX
6FC7DB_AL	121.1	115.0	120.5	116.9	118.4	1.16	8.7	2.9	117.0	0.85	10.0	2.5	8	AL
6RRZN4	115.1	114.1	113.1	114.7	114.3	0.07	8.3	0.9	113.8	-0.04	7.5	2.2	8	AH
88W9JM	115.7	114.6	112.6	111.7	113.7	-0.09	6.0	1.8	115.0	0.29	7.8	2.0	8	LA
8MLGEZ	116.0	115.6	116.1	119.2	116.7	0.72	8.6	1.7	119.4	1.49	8.4	3.8	8	LA
8MLGEZ_AL	112.1	113.0	113.8	115.5 L	113.6	-0.11	6.8	1.5	113.8	-0.04	6.3	1.3	8	AL
9XL7XM_AL	112.6	114.7	111.0	112.5	112.7	-0.34	9.2	1.5	113.2	-0.21	8.2	2.8	8	AL
A89M43_AL	115.3	118.3	119.4	No DATA	117.7	0.97	9.5	2.1	116.8	0.78	9.3	1.7	6	AL
B6W8A2	109.6	107.4	No DATA	111.4	109.5	-1.19	6.3	2.0	107.8	-1.71	7.1	2.9	6	AX
B6W8A2_AL	120.0	115.9 H	No DATA	114.3 H	116.7	0.72	12.7	2.9	114.3	0.09	10.3	3.4	6	AL
BBYDP4	116.3	114.8	111.5	113.7	114.1	0.03	9.0	2.0	113.7	-0.07	8.1	1.9	8	AH
C9TBC9	109.3	105.1 *	111.7	109.1	108.8	-1.37	7.9	2.7	108.4	-1.55	8.0	2.8	8	LA
CQ9NPW_AL	112.6	110.7	118.5	116.1	114.5	0.13	7.7	3.5	114.7	0.19	7.5	3.3	8	AL
CQC9H7	113.9	112.0	115.6	114.6	114.0	0.01	4.9	1.5	114.6	0.16	4.8	1.5	8	TP
DLU7BZ	117.0	123.4 *	118.6	121.1	120.0	1.59	7.8	2.8	119.4	1.51	7.5	2.9	8	LJ
EMNEU4	134.4 X	136.3 X	128.4 X	128.7 X	132.0	4.73 X	8.7	4.0	134.0	5.55 X	9.7	4.5	8	AX
FDR3UT_AL	117.0	116.9	114.1	111.9	115.0	0.26	6.0	2.5	115.4	0.41	5.8	2.1	8	XX
GW4R2Y_AL	111.7 L	110.4 L	110.6	109.2 L	110.5	-0.92	2.7	1.0	114.6	0.17	5.7	4.7	8	AL
HHF8WV_AL	108.2	111.1	112.7	108.4	110.1	-1.02	5.4	2.2	109.4	-1.28	6.6	2.4	8	AL
HYJWWY	113.3	112.1	111.2	114.7	112.8	-0.31	9.2	1.5	113.0	-0.27	8.8	2.4	8	LC
HYJWWY_AI	111.2 H	110.6	117.8	111.4	112.8	-0.32	10.9	3.4	114.2	0.07	9.4	2.8	8	AL
K894QN	106.7	105.1 *	110.0	109.2	107.7	-1.65	7.8	2.3	108.5	-1.52	7.9	2.6	8	LC
KB9FLN_AL	113.5	111.9	114.0	114.3	113.4	-0.15	8.1	1.1	113.4	-0.15	8.1	1.1	4	AL
KBCZEX	116.3	113.8	115.3	114.5	115.0	0.26	4.8	1.1	115.3	0.37	4.8	1.0	8	AH
KF3ANW_AL	113.0	112.4	113.9	111.6	112.7	-0.33	8.8	1.0	113.0	-0.27	8.1	3.5	8	AL
KNVRUR	114.4	107.4	106.3 *	105.4	108.4	-1.48	7.4	4.1	107.1	-1.90	7.6	3.7	8	XX
LDUEHX	107.5	113.6	116.3	109.5	111.7	-0.59	8.9	4.0	113.7	-0.08	7.8	3.8	8	LA
MKMBFK	113.8	115.0	111.2	111.1	112.8	-0.32	8.9	1.9	113.3	-0.20	9.2	1.9	8	LA
NCCAUK	109.7	109.6	108.5	109.8	109.4	-1.20	7.6	0.6	109.1	-1.36	7.4	1.1	8	LC



Containerboard Interlaboratory Testing Program
Analysis 205
Bursting Strength (Mullen), 42 lb Linerboard - 42L4
 TAPPI Official Test Method T807

Report #672
September 2025

WebCode	Weekly Means				Monthly Results				Cumulative Results					
	Week 1	Week 2	Week 3	Week 4	Mean	CPV	SD	SD Wks	Mean	CPV	SD	SD Wks	Wks	Inst
P9MGZT	111.1	115.2	115.1	112.9	113.6	-0.11	7.2	2.0	117.3	0.91	6.3	4.4	8	LC
Q4TKDM	108.8	115.6	109.2	108.0	110.4	-0.94	8.9	3.5	109.9	-1.15	8.3	3.0	8	AH
QLTVWK_AI	120.9	122.0 L	113.4	120.2	119.1	1.35	6.4	3.9	117.1	0.86	7.3	3.7	8	AL
R23ZKN	119.5	118.0	117.5	116.5	117.9	1.02	8.2	1.3	117.5	0.98	8.1	2.1	8	XX
RKA9VG	124.0 *	No DATA	No DATA	121.6	122.8	2.32 *	7.8	1.7	121.3	2.02 *	7.3	2.6	6	AH
RW3PNN	117.0	112.6	116.7	116.0	115.6	0.42	7.3	2.0	117.5	0.98	7.3	2.9	8	XX
U36HVP	110.6	111.3	110.3	109.8 L	110.5	-0.92	3.7	0.6	110.3	-1.03	3.8	0.9	8	XX
U832XN	146.5 X	146.8 X	141.9 X	149.2 X	146.1	8.46 X	10.7	3.0	144.6	8.49 X	10.8	3.3	8	XX
UH2XVJ	109.1	109.6	107.3	107.2	108.3	-1.50	6.7	1.2	109.4	-1.27	6.4	1.5	8	LZ
VWDVDP_AI	110.2	113.6	113.2	109.8	111.7	-0.60	8.4	2.0	112.5	-0.41	9.2	2.6	8	AL
WKVDGC	120.4	124.3 *	119.9	123.7 *L	122.1	2.13 *	5.8	2.2	121.4	2.07 *	6.3	2.5	8	LA
WPUPGH	113.5 L	113.3 L	112.8 L	112.9 L	113.1	-0.23	1.3	0.3 L	115.8	0.51	1.2	2.9	8	LA
XQL67J	104.2 *	109.0	108.9	107.1	107.3	-1.76	7.0	2.2	107.5	-1.80	7.2	2.1	8	XX
Y2XUF9	116.6	118.5	117.1	118.2	117.6	0.95	8.1	0.9	114.3	0.09	7.8	3.8	8	LB
YE2FKJ	120.2	120.7	118.5	119.9	119.8	1.54	6.8	0.9	118.2	1.16	8.0	2.8	8	LA
YPY3TF_AI	113.7	114.3	114.9	111.8	113.7	-0.07	8.8	1.4	112.8	-0.33	8.8	3.5	8	AL
YTGH39	123.6 *H	148.5 X	124.5 *	126.6 *	130.8	4.43 X	11.0	11.9 H	131.5	4.86 X	10.0	7.9 H	8	AX
ZWZW79	118.6	116.9	119.4	114.9	117.4	0.91	6.9	2.0	117.0	0.82	8.0	3.9	8	TB

Consensus (All Labs) Results														
Wk Mean	114.29	113.81	114.07	114.06	Month Mean	113.98		Grand Mean	113.99					
Avg SDr	8.17	7.38	7.54	7.71	Avg SD	7.67		Avg SD	7.68					
SD btwn Labs	4.50	4.25	3.96	4.92	SD btwn Labs	3.80		SD btwn Labs	3.60					
Labs Incl	51	49	48	49	SD btwn Wks	2.34		SD btwn Wks	2.79					
Labs Excl	2	3	2	2	Labs Incl	50		Labs Incl	50					
Labs not Rcvd	0	1	3	2										

Key to Instrument Codes Reported by Participants

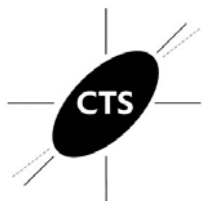
AH	Perkins Model AH	AL	L & W Autoline 400
AX	Perkins Mullen Tester (model not specified)	LA	L&W Bursting Strength Tester
LB	L&W Burst-O-Matic	LC	L&W Autoline (205 Enrollment)
LJ	L&W Bursting Strength Tester J-Type	LZ	L&W (model not specified)
TB	TMI Monitor/Burst 1000	TP	Technidyne PROFILE/Plus
XX	Instrument make/model not specified by lab		



Containerboard Interlaboratory Testing Program
Analysis 206
Bursting Strength (Mullen), 52 lb Linerboard - 52M1
 TAPPI Official Test Method T807

Report #672
September 2025

WebCode	Weekly Means				Monthly Results				Cumulative Results					
	Week 1	Week 2	Week 3	Week 4	Mean	CPV	SD	SD Wks	Mean	CPV	SD	SD Wks	Wks	Inst
487Q8C_AL	132.6	138.0 H	132.7	137.0	135.1	0.97	13.3	2.8	134.3	1.19	11.7	5.0	8	AL
4FKPN9_AL	119.1	118.6	125.0	121.2	121.0	-1.73	9.1	2.9	123.0	-1.54	9.5	3.3	8	XX
4J3TUD_AL	122.8	119.9	117.8 *	115.8 *	119.1	-2.09 *	13.6	3.0	119.1	-2.49 *	13.6	3.0	4	AL
4JY934_AL	129.3	129.8	132.5	141.6	133.3	0.62	12.7	5.7	132.5	0.74	12.0	4.1	8	AL
4MEVGA	135.1	141.1 *	143.3 *	129.8	137.3	1.39	12.0	6.1	135.2	1.39	13.2	5.4	8	LC
4YB2B8_AL	116.2 *	114.1 *L	122.2	No DATA	117.5	-2.38 *	6.0	4.2	119.1	-2.48 *	6.3	3.2	7	AL
6A6NVA	127.8	126.9	123.6	130.7	127.3	-0.53	8.9	2.9	127.3	-0.52	8.9	2.9	4	XX
6FC7DB_AL	136.9	138.8	125.6	130.5	132.9	0.56	13.1	6.1	133.4	0.95	12.8	4.6	8	AL
6RRZN4	127.3	136.9	128.0	129.2	130.4	0.06	11.5	4.4	130.7	0.31	10.8	3.2	8	AH
88W9JM	132.4	129.3	131.6	136.6	132.5	0.46	13.3	3.0	132.6	0.76	13.7	3.0	8	LA
8MLGEZ	129.8 H	127.0	128.0	130.4	128.8	-0.23	12.7	1.6	134.3	1.19	11.8	6.8	8	LA
8MLGEZ_AL	124.8	130.6	131.6	129.5 L	129.1	-0.17	7.1	3.0	129.8	0.11	7.2	2.6	8	AL
9XL7XM_AL	133.4	129.4	133.9	139.5	134.1	0.77	13.6	4.2	131.5	0.50	11.7	5.9	8	XX
A89M43_AL	123.8	120.9	125.8	No DATA	123.5	-1.24	8.0	2.5	124.0	-1.30	8.3	1.9	5	AL
B6W8A2	127.8	125.4	No DATA	126.4	126.5	-0.67	10.3	1.2	127.0	-0.59	10.1	2.7	6	AH
B6W8A2_AL	137.7	135.0	No DATA	136.2	136.3	1.20	11.8	1.4	131.5	0.51	10.1	5.4	6	AL
BBYDP4	130.0	125.9	132.4	130.8	129.8	-0.05	10.7	2.8	130.5	0.25	12.5	3.7	8	AH
C9TBC9	123.8	124.8	121.2	124.9	123.7	-1.21	9.7	1.7	125.0	-1.07	10.0	5.0	8	LA
CQ9NPW_AL	138.9	131.0	134.7 H	134.7	134.8	0.91	13.9	3.2	132.4	0.72	12.5	3.5	8	AL
CQC9H7	127.1	127.6	130.0	130.1	128.7	-0.25	7.4	1.6	125.4	-0.98	6.9	3.8	8	TP
DLU7BZ	133.0	137.1	132.6	131.9	133.7	0.69	11.9	2.3	133.7	1.03	11.9	2.3	4	LZ
EMNEU4	148.3 *	138.8	151.2 XH	152.2 X	147.6	3.35 X	15.3	6.1	147.7	4.41 X	14.4	4.9	8	XX
FDR3UT_AL	133.4	135.3	133.4	125.2 H	131.8	0.34	17.4	4.5	130.6	0.29	13.1	3.6	8	XX
GW4R2Y_AL	131.6 L	132.1 L	129.6 L	129.9 L	130.8	0.15	2.7	1.2	130.2	0.19	8.4	3.5	8	AL
HHF8WV_AL	136.7	135.2	127.9	131.4 L	132.8	0.53	7.7	3.9	130.4	0.25	9.7	4.4	8	AL
HYJWWY	136.3	132.7	131.6	126.3	131.7	0.33	10.6	4.1	132.2	0.68	12.6	3.1	8	LC
HYJWWY_AI	123.7	129.4	135.3	134.7	130.8	0.14	12.5	5.4	132.7	0.79	12.5	4.3	8	XX
K894QN	124.2	124.2	126.7	127.0	125.5	-0.86	10.8	1.5	126.1	-0.80	11.2	1.5	8	LA
KB9FLN_AL	133.3	132.4	132.9	133.0	132.9	0.54	12.3	0.4 L	132.9	0.84	12.3	0.4 L	4	XX
KBCZEX	128.3	130.4	132.0	129.7	130.1	0.01	7.5	1.5	127.7	-0.41	6.4	3.1	8	AH
KF3ANW_AL	127.8	128.9	130.4	124.7	128.0	-0.39	10.3	2.4	129.3	-0.04	11.6	2.9	7	AL
KNVRUR	126.2	122.1	127.1	129.4	126.2	-0.73	11.9	3.0	126.8	-0.63	11.2	2.7	8	XX
LDUEHX	126.8	128.7	129.6	125.6	127.7	-0.44	12.0	1.8	129.2	-0.06	12.0	2.4	8	LA
MKMBFK	133.7	123.3	138.1 H	136.8	133.0	0.56	13.7	6.7	129.6	0.04	12.7	5.8	8	LA
NCCAUK	132.2	128.3	131.1 L	127.8	129.9	-0.03	8.9	2.1	128.2	-0.29	10.2	3.2	7	LC



Containerboard Interlaboratory Testing Program
Analysis 206
Bursting Strength (Mullen), 52 lb Linerboard - 52M1
 TAPPI Official Test Method T807

Report #672
September 2025

WebCode	Weekly Means				Monthly Results				Cumulative Results					
	Week 1	Week 2	Week 3	Week 4	Mean	CPV	SD	SD Wks	Mean	CPV	SD	SD Wks	Wks	Inst
P9MGZT	127.4	125.3	125.0	128.4	126.5	-0.67	9.0	1.6	130.0	0.15	10.9	5.0	8	LC
Q4TKDM	125.2	126.8	118.4 *	125.6	124.0	-1.15	9.3	3.8	126.5	-0.70	10.4	4.2	8	AH
QLTVWK_AI	136.9	128.9	133.4	133.9	133.2	0.61	8.3	3.3	132.9	0.85	10.7	3.0	8	AL
R23ZKN	131.5	129.0 H	144.5 *	127.5	133.1	0.59	14.5	7.8 H	137.3	1.91	14.2	7.0	8	XX
RKA9VG	137.4	No DATA	No DATA	136.6	137.0	1.33	15.0	0.6	136.1	1.61	13.1	1.6	4	AH
RW3PNN	128.8	129.6	125.5	125.1	127.3	-0.53	10.9	2.3	130.4	0.23	11.2	4.3	8	XX
U36HVP	124.0	125.4	127.2	124.7	125.3	-0.90	7.4	1.4	125.3	-0.98	7.4	1.4	4	XX
U832XN	142.3	146.9 X	144.2 *L	136.0	142.4	2.35 *	7.5	4.6	146.7	4.17 X	11.8	7.5	8	XX
UH2XVJ	125.7	126.3	124.8	125.9	125.7	-0.83	11.8	0.7	128.0	-0.33	12.3	2.6	8	LZ
VWDVDP_AI	118.5	127.9	123.6 L	120.7	122.7	-1.40	8.5	4.1	127.0	-0.59	10.9	5.3	8	AL
WKVDGC	145.5 *	142.0 *	140.5	142.1 *	142.5	2.38 *	8.1	2.1	142.3	3.10 X	7.2	1.8	8	LA
WPUPGH	124.7 L	124.5 L	124.7 L	124.1 L	124.5	-1.05	1.0	0.3 L	121.8	-1.83	1.1	2.9	8	LA
XQL67J	127.5	124.5	132.2	125.5	127.4	-0.50	9.5	3.4	125.5	-0.94	9.1	3.8	8	XX
Y2XUF9	135.4	136.4	135.9	136.0	135.9	1.13	11.6	0.4 L	125.4	-0.97	9.8	11.4 H	8	LB
YE2FKJ	136.1	134.8	135.3	132.4	134.6	0.88	8.7	1.6	134.6	1.26	8.7	1.6	4	LA
YPY3TF_AI	128.1	130.4	125.2	131.5	128.8	-0.23	10.6	2.8	129.1	-0.08	11.2	3.1	8	AL
YTGH39	142.0	158.7 X	151.5 X	145.7 *	149.5	3.71 X	12.1	7.3 H	149.3	4.80 X	12.1	7.0	8	LA
ZWZW79	136.5	129.4 H	136.7	133.3	134.0	0.76	13.0	3.4	133.1	0.90	12.5	4.3	8	TB

					Consensus (All Labs) Results			
Wk Mean	130.67	129.42	130.32	130.46	Month Mean	130.02	Grand Mean	129.41
Avg SDr	11.32	10.34	10.71	11.17	Avg SD	10.88	Avg SD	10.95
SD btwn Labs	6.63	5.84	6.08	5.80	SD btwn Labs	5.25	SD btwn Labs	4.15
Labs Incl	53	50	48	50	SD btwn Wks	3.38	SD btwn Wks	4.14
Labs Excl	0	2	2	1	Labs Incl	51	Labs Incl	49
Labs not Rcvd	0	1	3	2				

Key to Instrument Codes Reported by Participants

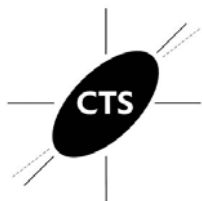
AH	Perkins Model AH	AL	L & W Autoline 400
LA	L&W Bursting Strength Tester	LB	L&W Burst-O-Matic
LC	L&W Autoline (206 Enrollment)	LZ	L&W (model not specified)
TB	TMI Monitor/Burst 1000	TP	Technidyne PROFILE/Plus
XX	Instrument make/model not specified by lab		



Containerboard Interlaboratory Testing Program
Analysis 215
Ring Crush, 42 lb Linerboard - 42L4
 TAPPI Official Test Method T822

Report #672
September 2025

WebCode	Weekly Means				Monthly Results				Cumulative Results					
	Week 1	Week 2	Week 3	Week 4	Mean	CPV	SD	SD Wks	Mean	CPV	SD	SD Wks	Wks	Inst
4FKPN9	93.7	95.0	94.4	94.9	94.5	-0.22	2.8	0.6	94.1	-0.44	2.6	0.7	8	LD
4J3TUD	66.1 X	65.9 X	66.6 X	64.0 X	65.7	-6.38 X	4.5	1.1	65.0	-8.16 X	4.5	1.2	8	LD
4MEVGA	96.0	99.0	96.1	97.3	97.1	0.34	2.7	1.4	97.2	0.38	2.5	1.3	8	LD
6A6NVA	91.4	89.7 H	92.4 H	93.0	91.6	-0.83	5.9	1.5	92.6	-0.84	5.4	2.5	8	TU
6PM8YB	91.7	94.5	94.0 L	90.3	92.6	-0.62	2.6	2.0	94.7	-0.27	2.5	2.7	8	TH
6RRZN4	92.0	92.4	94.4	91.9 L	92.7	-0.61	2.8	1.2	92.8	-0.78	2.7	0.9	8	LD
8MLGEZ	93.4	94.4	92.2	95.3	93.8	-0.36	3.5	1.3	93.1	-0.71	3.3	1.9	8	LD
9P8KMX	97.9	97.8	94.7	97.3	96.9	0.30	3.6	1.5	95.9	0.04	3.2	1.9	8	LG
9XL7XM	97.9	100.0	99.5	101.3 L	99.7	0.89	2.6	1.4	98.7	0.77	2.7	1.8	8	LD
A3VNN3	85.4 *	83.3 *	82.9 *	80.9 XH	83.1	-2.65 *	6.1	1.8	83.1	-3.34 X	6.1	1.8	4	XX
A89M43	96.0	94.9	94.4	94.1	94.9	-0.14	3.4	0.8	95.6	-0.05	3.4	1.1	8	LC
BBYDP4	95.0	94.7	94.4	95.3	94.8	-0.14	2.4	0.4	95.5	-0.06	2.9	1.2	8	LC
BHMYU6	103.1	102.5	100.5	102.1 L	102.0	1.40	4.0	1.1	101.2	1.45	2.9	1.4	8	MB
BZ6ZP8	102.7	102.8	102.6 L	100.5 L	102.2	1.43	2.1	1.1	101.6	1.55	1.9	1.2	8	MZ
CQ9NPW	99.7	100.9	99.1	96.4	99.0	0.75	2.7	1.9	99.0	0.85	2.7	1.8	8	LD
CQC9H7	98.2	97.0	97.3	95.2	96.9	0.30	2.9	1.2	95.8	0.02	2.9	1.9	8	TX
E62V23	93.0	95.1	92.9	93.7 L	93.7	-0.39	2.7	1.0	92.2	-0.93	3.1	1.7	8	LC
HYJWWY	94.3	91.8	95.9	94.6	94.2	-0.29	2.6	1.7	91.8	-1.04	2.4	3.8	8	LD
JV2UPU	97.7	102.9	103.7	98.3	100.6	1.10	2.4	3.1	101.5	1.51	2.4	2.4	8	LD
K894QN	94.7	94.6	94.9	92.0	94.1	-0.31	4.0	1.4	94.3	-0.38	3.7	1.1	8	LD
KB9FLN	125.2 X	127.3 X	120.3 X	125.3 X	124.5	6.21 X	3.4	3.0	124.5	7.62 X	3.4	3.0	4	LC
KF3ANW	96.3	97.2 L	96.4	96.8	96.7	0.25	2.4	0.4	96.5	0.20	3.0	0.5 L	8	LD
LCYVFW	104.8 L	104.2 L	103.3 L	101.4 L	103.4	1.70	1.1	1.5	102.6	1.81	1.6	2.2	8	MZ
LDUEHX	89.9	92.4	91.9	91.1	91.3	-0.90	3.4	1.1	93.5	-0.59	3.2	2.6	8	LD
MJVD7T	88.5	85.8 *	85.7 *	88.0 *	87.0	-1.82	3.7	1.5	90.6	-1.36	3.6	4.0	8	EM
NCCAUK	95.1	97.2 L	95.4	95.0	95.7	0.03	3.5	1.0	95.0	-0.19	3.5	1.4	8	LD
NTXVGv	99.3	96.3	97.9	94.6	97.0	0.33	2.5	2.0	95.8	0.01	2.6	1.9	8	EM
P9MGZT	97.5	96.5 H	98.2 H	98.1 H	97.6	0.44	9.6	0.8	96.8	0.28	7.7	2.1	8	MB
QLTVWK	74.5 XH	87.3 H	74.3 XH	74.9 XH	77.7	-3.80 X	8.6	6.4 H	76.6	-5.07 X	7.7	7.3 H	8	LZ
R3UYUF	89.2	91.0	88.5	88.4 *	89.3	-1.33	2.4	1.2	89.4	-1.68	2.7	1.0	8	LC
RW3PNN	100.0	100.1	98.0	97.1	98.8	0.70	4.6	1.5	96.7	0.25	5.5	3.1	7	LD
U36HVP	85.4 *	88.1	84.8 *H	83.1 XH	85.3	-2.17 *	5.9	2.1	85.7	-2.67 *	5.2	2.2	8	MZ
UH2XVJ	99.0	97.2	100.3	100.4	99.2	0.79	3.1	1.5	98.0	0.59	3.0	1.7	8	LD
WKVDGC	91.9	95.2	98.0	96.4	95.4	-0.03	3.1	2.6	93.6	-0.56	3.1	3.0	8	LC
WPUPGH	96.1 L	95.9 L	96.0 L	95.9 L	96.0	0.10	0.5	0.1 L	96.2	0.12	0.6	0.3 L	8	TU



Containerboard Interlaboratory Testing Program
Analysis 215
Ring Crush, 42 lb Linerboard - 42L4
 TAPPI Official Test Method T822

Report #672
September 2025

WebCode	Weekly Means				Monthly Results				Cumulative Results					Inst
	Week 1	Week 2	Week 3	Week 4	Mean	CPV	SD	SD Wks	Mean	CPV	SD	SD Wks	Wks	
XBRKNB	94.1	93.1	92.5	94.3	93.5	-0.43	3.3	0.9	93.5	-0.61	3.0	1.7	8	LD
XQL67J	91.5	90.6	92.3	91.7	91.5	-0.85	2.8	0.7	92.1	-0.97	3.9	1.0	8	XX
Y2XUF9	102.4	101.5	101.8	102.5	102.1	1.40	3.9	0.5	100.6	1.29	4.0	1.6	8	LD
YPG889	107.6 *	107.4 *	99.7	101.2	104.0	1.81	3.2	4.1 H	102.5	1.78	2.5	3.2	8	TU
YTGH39	92.4 H	100.1	97.4	93.1 H	95.7	0.05	7.8	3.6 H	99.7	1.04	6.1	5.1 H	8	LX
ZWZW79	94.2	96.2	96.9	94.4	95.4	-0.02	3.3	1.3	96.4	0.18	2.6	1.4	8	LD

Consensus (All Labs) Results														
Wk Mean	95.50	95.81	95.55	95.66	Month Mean	95.51		Grand Mean	95.75					
Avg SDr	3.52	3.95	3.85	3.91	Avg SD	3.85		Avg SD	3.51					
SD btwn Labs	4.96	5.17	4.75	3.71	SD btwn Labs	4.67		SD btwn Labs	3.78					
Labs Incl	38	39	38	36	SD btwn Wks	1.66		SD btwn Wks	2.16					
Labs Excl	3	2	3	5	Labs Incl	38		Labs Incl	37					
Labs not Rcvd	0	0	0	0										

Key to Instrument Codes Reported by Participants

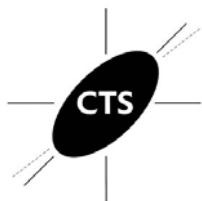
EM	Emerson 1200	LC	L&W Crush Tester 48
LD	L&W Crush Tester 248	LG	L&W 753
LX	L&W 506	LZ	L&W Crush Tester (model not specified)
MB	Messmer Buchel K440	MZ	Messmer Buchel (model not specified)
TH	TMI Compression Tester, Model 17-76	TU	TMI Universal Crush Tester (TMI K440)
TX	TMI Digital Crush Tester (model not specified)	XX	Instrument make/model not specified by lab



Containerboard Interlaboratory Testing Program
Analysis 216
Ring Crush, 52 lb Linerboard - 52M1
 TAPPI Official Test Method T822

Report #672
September 2025

WebCode	Weekly Means				Monthly Results				Cumulative Results					
	Week 1	Week 2	Week 3	Week 4	Mean	CPV	SD	SD Wks	Mean	CPV	SD	SD Wks	Wks	Inst
4FKPN9	127.4	127.2	132.9	129.3	129.2	-0.06	3.6	2.6	129.0	-0.09	4.1	2.3	8	LD
4J3TUD	93.9 X	94.3 X	95.8 X	95.5 X	94.9	-5.52 X	4.3	0.9	95.6	-6.46 X	10.1	1.2 L	8	LD
4MEVGA	130.6	132.0	131.7	132.8	131.8	0.36	2.7	0.9	132.0	0.49	2.9	1.2 L	8	LD
6A6NVA	128.1 H	126.7	127.4 H	125.2	126.9	-0.43	7.0	1.3	126.9	-0.50	7.0	1.3 L	4	TU
6PM8YB	126.7	130.8	129.0	133.4	130.0	0.07	4.1	2.8	130.2	0.13	4.2	2.8	8	TH
6RRZN4	127.0	130.1	128.1	126.8	128.0	-0.25	4.9	1.5	128.1	-0.27	4.8	1.7	8	LD
8MLGEZ	129.6	126.9	126.7	126.6	127.5	-0.33	3.9	1.4	126.4	-0.59	3.8	2.0	8	LD
9P8KMX	128.4	131.5	131.0	132.7	130.9	0.21	3.8	1.8	130.1	0.13	3.9	1.8	8	LY
9XL7XM	132.2	133.2	132.9	137.0	133.8	0.68	3.6	2.2	135.4	1.14	3.6	2.5	8	LD
A3VNN3	110.9 XH	118.1 H	112.0 *H	112.7 *	113.4	-2.57 *	8.5	3.2	121.7	-1.49	6.6	9.2	8	LZ
A89M43	123.9	123.5	125.1	126.0	124.6	-0.78	4.4	1.1	128.6	-0.16	4.8	4.5	8	LC
BBYDP4	129.2	132.0	131.5	126.2	129.7	0.03	3.0	2.7	129.7	0.05	3.4	2.2	8	LC
BHMYU6	134.7 H	130.8 H	140.3	138.6	136.1	1.04	6.8	4.2	134.9	1.04	5.7	4.3	8	MB
BZ6ZP8	141.2 *L	140.6 L	140.2 L	138.2	140.1	1.67	1.3	1.3	138.3	1.68	1.9	2.8	8	MZ
CQ9NPW	134.9	135.1	133.6	135.0	134.6	0.81	4.0	0.7	135.2	1.10	4.1	1.8	8	LD
CQC9H7	131.7	129.9	134.7	130.9	131.8	0.36	4.5	2.1	131.2	0.33	5.2	2.5	8	TX
E62V23	126.8	128.8	127.7	130.0	128.3	-0.19	3.3	1.4	128.0	-0.28	3.7	1.1 L	8	LC
HYJWWY	131.8	129.1	135.9	127.6	131.1	0.25	4.5	3.6	127.7	-0.34	4.6	4.8	8	LD
JV2UPU	132.3	136.0 L	136.4	138.3	135.8	0.99	3.2	2.5	134.9	1.04	3.4	1.9	8	LD
K894QN	129.8	130.6	129.1	127.2	129.2	-0.06	4.4	1.4	128.6	-0.15	4.4	1.4	8	LD
KB9FLN	171.8 X	171.2 XL	170.3 X	171.4 X	171.2	6.63 X	3.2	0.6	171.2	7.95 X	3.2	0.6 L	4	LC
KF3ANW	131.0	129.8	129.6	131.0	130.3	0.13	5.1	0.8	130.0	0.10	5.1	1.0 L	7	LD
LCYVFW	140.8 *L	140.6 L	140.3 L	139.9 L	140.4	1.73	1.3	0.4 L	140.6	2.12 *	2.0	2.7	8	MZ
LDUEHX	127.5	126.1	125.4	125.6	126.1	-0.54	4.8	0.9	127.2	-0.43	4.1	2.8	8	LD
MJVD7T	115.5 X	110.6 X	111.3 *	114.6 *	113.0	-2.64 *	4.3	2.4	116.3	-2.51 *	4.3	3.9	8	EM
NCCAUK	125.8	130.3	127.3	127.0	127.6	-0.31	4.3	1.9	127.1	-0.45	4.6	2.1	7	LD
NTXVGV	134.8	138.4	133.0	132.1	134.6	0.80	3.5	2.8	133.1	0.70	4.2	2.5	8	EM
P9MGZT	129.8	136.3	137.2	131.6	133.7	0.66	5.3	3.6	124.5	-0.95	8.3	10.6 H	8	MB
QLTVWK	95.8 XH	115.8 *H	104.3 XH	100.8 XH	104.2	-4.05 X	8.8	8.5 H	116.1	-2.54 *	8.3	19.1 H	8	LZ
R3UYUF	121.0 *	122.6	121.8	121.8	121.8	-1.24	3.3	0.7	121.4	-1.54	3.2	1.0 L	8	LC
RW3PNN	138.8	144.5 *	136.6	131.1	137.8	1.31	5.1	5.5	138.1	1.65	8.6	3.9	8	LD
U36HVP	113.1 X	113.4 *	113.0 *	112.4 *	113.0	-2.64 *	4.9	0.4 L	113.0	-3.15 X	4.9	0.4 L	4	MZ
UH2XVJ	136.1	132.5	137.7	134.1	135.1	0.89	3.9	2.3	133.2	0.71	4.1	2.8	8	LD
WKVDGC	122.1	127.0	125.2	132.4	126.7	-0.46	3.3	4.3	126.0	-0.67	4.3	3.6	8	LC
WPUPGH	129.6 L	129.2 L	129.4 L	129.0 L	129.3	-0.04	0.7	0.2 L	129.4	-0.01	0.8	0.2 L	8	TU



Containerboard Interlaboratory Testing Program
 Analysis 216
Ring Crush, 52 lb Linerboard - 52M1
 TAPPI Official Test Method T822

Report #672
September 2025

WebCode	Weekly Means				Monthly Results				Cumulative Results					Inst
	Week 1	Week 2	Week 3	Week 4	Mean	CPV	SD	SD Wks	Mean	CPV	SD	SD Wks	Wks	
XBRKNB	127.0	128.5	130.4	131.7	129.4	-0.02	3.1	2.1	128.1	-0.25	3.6	2.1	8	LD
XQL67J	127.4	131.1	129.8	132.3	130.2	0.10	4.7	2.1	130.1	0.12	4.8	2.1	8	XX
Y2XUF9	132.6	132.5	132.1	132.1	132.3	0.44	3.7	0.3 L	131.9	0.47	4.6	0.9 L	8	LD
YPG889	129.5	129.3	127.4	130.6	129.2	-0.06	4.5	1.4	128.7	-0.14	4.7	5.9	8	TU
YTGH39	128.0 H	139.8 H	139.6	119.0 H	131.6	0.33	8.4	10.0 H	133.1	0.70	7.3	9.2	8	LY
ZWZW79	128.5	125.9	133.0	125.3	128.2	-0.22	4.2	3.5	127.7	-0.33	4.5	2.6	8	LD

Consensus (All Labs) Results														
Wk Mean	130.19	130.17	130.16	129.16	Month Mean	129.55		Grand Mean	129.46					
Avg SDr	4.39	4.76	4.43	4.30	Avg SD	4.50		Avg SD	4.86					
SD btwn Labs	4.61	6.43	7.10	6.58	SD btwn Labs	6.27		SD btwn Labs	5.24					
Labs Incl	35	38	38	38	SD btwn Wks	2.84		SD btwn Wks	4.86					
Labs Excl	6	3	3	3	Labs Incl	38		Labs Incl	38					
Labs not Rcvd	0	0	0	0										

Key to Instrument Codes Reported by Participants

EM	Emerson 1200	LC	L&W Crush Tester 48
LD	L&W Crush Tester 248	LY	L&W Crush Tester 958
LZ	L&W Crush Tester (model not specified)	MB	Messmer Buchel K440
MZ	Messmer Buchel (model not specified)	TH	TMI Compression Tester, Model 17-76
TU	TMI Universal Crush Tester (TMI K440)	TX	TMI Digital Crush Tester (model not specified)
XX	Instrument make/model not specified by lab		



Containerboard Interlaboratory Testing Program
Analysis 223
STFI, 42 lb Linerboard - 42L4
 TAPPI Official Test Method T826

Report #672
September 2025

WebCode	Weekly Means				Monthly Results				Cumulative Results					
	Week 1	Week 2	Week 3	Week 4	Mean	CPV	SD	SD Wks	Mean	CPV	SD	SD Wks	Wks	Inst
487Q8C_AL	23.1	26.2	25.5	25.1	25.0	-0.16	1.8	1.3	25.0	-0.21	1.8	1.3	4	AL
4FKPN9_AL	25.8	24.6	24.9	24.3	24.9	-0.21	1.3	0.6	24.7	-0.56	1.4	0.6	8	XX
4J3TUD	24.3	24.1	23.9	24.3	24.1	-1.01	1.6	0.2	24.7	-0.57	1.8	0.6	8	LY
4J3TUD_AL	24.6	23.9	24.6	24.8	24.5	-0.66	1.7	0.4	24.8	-0.37	1.8	0.5	8	AL
4JY934_AL	23.2	23.5	23.6	22.4 *	23.2	-2.02 *	1.4	0.6	23.1	-2.39 *	1.4	0.4	8	AL
4MEVGA	24.6 L	25.8	25.9	25.9	25.5	0.46	1.5	0.6	25.6	0.56	1.6	0.5	8	LA
4YB2B8	26.0	23.9	25.4	No DATA	25.1	-0.01	1.5	1.1	25.1	0.01	1.4	0.7	6	LU
6A6NVA	25.3	24.3	26.1	23.3	24.7	-0.38	1.6	1.2	24.7	-0.52	1.7	0.8	8	TT
6FC7DB_AL	23.6	26.5	26.4	26.0	25.6	0.54	1.8	1.4	25.2	0.07	1.7	1.5	8	AL
6RRZN4	24.5	23.8	23.7	24.9	24.2	-0.92	1.7	0.6	24.1	-1.19	1.6	0.5	8	LU
88W9JM	25.0	26.1	25.3	25.5	25.5	0.38	1.9	0.5	25.2	0.13	1.8	0.5	8	LY
8MLGEZ_AL	25.0	26.0 H	24.9	24.5	25.1	0.00	2.2	0.6	25.0	-0.16	2.2	1.0	8	AL
9F4C27	23.6	23.3 H	24.6 H	23.9	23.8	-1.34	2.4	0.5	23.8	-1.55	2.4	0.5	4	LH
9P8KMX	26.5	25.2	26.2	25.5	25.9	0.80	1.6	0.6	25.7	0.71	1.6	0.6	8	BK
9VV6RY	22.8 H	25.5	24.6	25.8	24.7	-0.47	3.8	1.3	24.9	-0.29	3.0	1.0	8	LH
9XL7XM_AL	24.9	24.4 L	25.4	25.3	25.0	-0.12	1.4	0.5	24.9	-0.33	1.3	0.5	8	AL
A3VNN3	23.2	23.0	23.0	22.6 *	23.0	-2.27 *	1.5	0.3	23.0	-2.61 *	1.5	0.3	4	LZ
A89M43	25.1	24.8	25.4	No DATA	25.1	-0.02	1.8	0.3	25.5	0.40	1.8	0.6	6	LU
B6W8A2	25.8	25.7	No DATA	26.2	25.9	0.85	1.6	0.3	25.7	0.63	1.6	0.3	6	LU
B6W8A2_AL	25.7 L	25.3	No DATA	26.6	25.9	0.81	1.6	0.7	25.6	0.55	1.3	0.9	6	AL
BBYDP4	24.4	24.5	24.4	23.7	24.2	-0.91	1.6	0.4	24.4	-0.91	1.5	0.4	8	LU
BHMYU6	24.2	24.3	25.4	26.5	25.1	-0.01	1.8	1.1	25.5	0.44	1.6	0.9	8	LA
BZ6ZP8	26.6 L	25.6 L	24.9 L	24.5 L	25.4	0.31	0.6	0.9	25.1	0.01	0.7	0.8	8	LZ
C9TBC9	26.9	26.6	25.0	25.8	26.1	1.03	1.8	0.9	26.3	1.35	1.8	0.6	8	LH
CN4WXJ	24.1	24.2	24.7	23.6	24.1	-1.02	1.7	0.4	24.1	-1.28	1.6	0.4	8	LW
CQ9NPW_AL	24.6	24.5	24.9	24.8	24.7	-0.40	1.5	0.2	24.5	-0.74	1.5	0.4	8	AL
DLU7BZ	25.5	24.6	25.2	23.7 H	24.7	-0.41	2.0	0.8	25.3	0.18	2.0	1.7 H	8	LH
E4BUXZ	25.0	25.5	25.6	24.6	25.2	0.09	1.5	0.5	25.5	0.48	1.7	0.7	8	XX
EMNEU4	25.7 L	26.1 L	24.8 L	25.6 L	25.5	0.46	0.0	0.6	25.6	0.61	0.0	0.5	8	LH
FDR3UT_AL	24.6	24.3	22.2 *	24.7	24.0	-1.21	1.6	1.2	24.2	-1.14	1.5	0.8	8	XX
GW4R2Y_AL	26.2 L	25.2 L	26.6 L	27.1 L	26.3	1.24	0.0	0.8	26.5	1.66	0.0	0.9	8	AL
HHF8WV_AL	24.8	24.9	25.4	24.7	24.9	-0.17	1.4	0.3	25.3	0.23	1.4	0.5	8	AL
HYJWWY	23.9	21.8 *	22.7 *	22.6 *	22.7	-2.50 *	1.5	0.9	22.4	-3.31 X	1.3	0.9	8	LZ
HYJWWY_AI	40.4 XL	40.6 XL	30.1 XL	40.3 XL	37.9	13.50 X	0.0	5.2 H	38.8	16.41 X	0.0	3.8 H	8	AL
JV2UPU	25.6	26.4	26.0	26.3	26.1	1.03	1.5	0.3	25.9	0.93	1.5	0.3	8	LH



Containerboard Interlaboratory Testing Program
 Analysis 223
STFI, 42 lb Linerboard - 42L4
 TAPPI Official Test Method T826

Report #672
September 2025

WebCode	Weekly Means				Monthly Results				Cumulative Results					Inst
	Week 1	Week 2	Week 3	Week 4	Mean	CPV	SD	SD Wks	Mean	CPV	SD	SD Wks	Wks	
K894QN	24.4	25.6	24.8 L	24.2	24.7	-0.40	1.2	0.6	24.9	-0.25	1.2	0.8	8	LA
KB9FLN_AL	21.1 XL	21.8 *L	22.8 *L	21.0 XL	21.7	-3.64 X	0.0	0.9	21.7	-4.16 X	0.0	0.9	4	AL
KF3ANW_AL	24.0	25.3	24.5	25.0	24.7	-0.43	1.7	0.6	24.1	-1.30	1.9	0.8	8	AL
KNVRUR	27.0	25.7	26.5	24.9	26.0	0.97	1.5	0.9	26.2	1.22	1.5	0.7	8	LH
LCYVFW	25.8 L	25.1 L	24.7 L	24.9 L	25.1	0.02	0.6	0.5	25.1	0.01	1.0	0.9	8	LZ
LDUEHX	23.1 L	23.9	24.2	24.5	23.9	-1.27	1.4	0.6	24.0	-1.41	1.4	0.4	8	LY
MVNJFQ	26.1	25.6	26.1	26.3	26.0	0.96	1.7	0.3	25.3	0.16	1.7	0.9	8	LU
NCCAUK	22.0 *	24.2	25.0	26.5 H	24.4	-0.70	2.0	1.9 H	25.1	-0.02	2.2	1.5 H	8	LA
P9MGZT	26.5	27.7 *L	25.2	26.0	26.4	1.34	1.5	1.0	26.4	1.47	1.4	0.7	8	LA
QLTVWK_AL	24.0 L	25.0	23.7	24.7	24.4	-0.79	1.5	0.6	24.1	-1.20	1.4	0.6	8	AL
R3UYUF	22.1 *	21.9 *	21.8 X	22.3 *	22.0	-3.24 X	1.6	0.2	21.9	-3.85 X	1.7	0.3	8	LZ
RKA9VG	27.7 *	No DATA	No DATA	27.3	27.5	2.53 *	1.6	0.2	27.1	2.36 *	1.6	0.4	6	LU
TMFXUJ	25.5	25.8	25.8	25.5	25.7	0.58	1.4	0.2	25.9	0.93	1.4	0.3	8	LH
U36HVP	25.5	25.1	26.3 H	25.5	25.6	0.53	2.0	0.5	25.9	0.94	1.8	0.5	8	XX
U832XN	25.1	24.6	24.9	25.2	25.0	-0.16	1.9	0.3	24.8	-0.41	2.0	0.4	8	XX
UH2XVJ	24.8	25.1	24.1	24.4	24.6	-0.53	1.6	0.4	24.8	-0.36	1.6	0.5	8	LY
VWDVDP_AI	24.6	25.3	25.0	25.2	25.0	-0.08	1.5	0.3	25.0	-0.13	1.4	0.4	8	AL
WDYMUF	23.4	24.1	23.9	24.3 L	23.9	-1.24	1.3	0.4	24.3	-0.99	1.4	0.5	8	LZ
WKVDGC	25.7	26.2 H	25.4 L	26.1	25.9	0.79	1.6	0.4	25.5	0.46	1.4	0.5	8	LA
WPUPGH	25.2	25.0	25.1	25.4	25.2	0.08	1.3	0.2	25.3	0.19	1.6	0.2 L	8	XX
WYW8RK	23.7 L	24.5 L	24.2 L	25.1	24.4	-0.77	0.8	0.6	24.2	-1.07	0.8	0.4	8	LH
Y2XUF9	26.0	26.2 H	26.2	26.9	26.3	1.28	1.9	0.4	26.1	1.11	1.6	0.4	8	LU
YE2FKJ	26.2	27.8 *	25.8	28.0 *	26.9	1.94 *	1.8	1.2	26.2	1.23	1.7	1.3	8	LA
YNCG7K	27.0	26.2	27.4 *	25.5	26.5	1.49	1.8	0.8	26.8	1.98 *	1.8	0.8	8	LA
YPG889	26.3	26.7	27.5 *	23.7	26.1	1.00	1.4	1.6 H	25.7	0.64	1.0	1.2	8	LA
YPY3TF_AL	30.5 X	30.6 X	30.8 X	31.6 X	30.9	6.10 X	1.9	0.5	30.4	6.38 X	2.0	0.7	8	AL
YTGH39	25.1	39.7 XH	21.5 X	26.6	28.2	3.31 X	7.3	7.9 H	35.8	12.78 X	5.3	20.6 H	8	LZ
ZWZW79	25.8	25.7	26.7	26.4	26.1	1.09	1.8	0.5	25.4	0.28	1.8	0.9	8	LW

					Consensus (All Labs) Results			
Wk Mean	24.95	24.99	25.05	25.09	Month Mean	25.10	Grand Mean	25.13
Avg SDr	1.84	1.67	1.60	1.59	Avg SD	1.68	Avg SD	1.64
SD btwn Labs	1.23	1.24	1.09	1.23	SD btwn Labs	0.95	SD btwn Labs	0.83
Labs Incl	60	59	56	58	SD btwn Wks	0.75	SD btwn Wks	0.74
Labs Excl	3	3	4	3	Labs Incl	58	Labs Incl	57
Labs not Rcvd	0	1	3	2				



Containerboard Interlaboratory Testing Program
Analysis 223
STFI, 42 lb Linerboard - 42L4
TAPPI Official Test Method T826

Report #672
September 2025

Key to Instrument Codes Reported by Participants

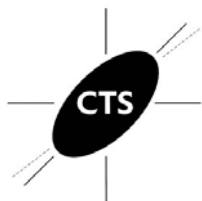
AL	L & W Autoline 400	BK	Buchel Strip Compression Tester BK-155
LA	L&W Autoline (223 Enrollment)	LH	L&W 282
LU	L&W 52 without moisture correction(was 53)	LW	L&W 53 with moisture correction (was 53M)
LY	L&W 152 without moisture correction	LZ	L&W (model not specified)
TT	TMI Short Span Compression, 17-34 (MB K455)	XX	Instrument make/model not specified by lab



Containerboard Interlaboratory Testing Program
 Analysis 224
STFI, 52 lb Linerboard - 52M1
 TAPPI Official Test Method T826

Report #672
September 2025

WebCode	Weekly Means				Monthly Results				Cumulative Results					
	Week 1	Week 2	Week 3	Week 4	Mean	CPV	SD	SD Wks	Mean	CPV	SD	SD Wks	Wks	Inst
487Q8C_AL	30.5	31.0	30.7	31.3	30.9	-0.43	2.7	0.3	31.2	0.02	2.8	0.5	8	AL
4FKPN9_AL	30.2	31.4	31.4	31.4	31.1	-0.28	2.3	0.6	31.1	-0.05	2.2	0.6	8	XX
4J3TUD	30.2	30.1	29.8	30.6	30.2	-0.94	1.8	0.3	29.8	-1.19	2.0	0.5	8	LY
4J3TUD_AL	30.6 L	31.1	30.2 L	30.8 L	30.7	-0.58	1.5	0.4	30.2	-0.86	1.8	0.6	8	AL
4JY934_AL	30.2	28.8	30.1	29.0	29.5	-1.44	2.0	0.7	29.2	-1.69	2.0	0.8	8	AL
4MEVGA	32.5	32.1	32.3	33.0	32.5	0.75	2.3	0.4	32.1	0.78	2.4	0.6	8	LU
4YB2B8	29.8	29.4	29.6	No DATA	29.6	-1.38	1.7	0.2 L	29.6	-1.37	1.9	0.4 L	7	LU
6A6NVA	29.9	29.1 H	31.2	30.3	30.1	-0.98	2.6	0.9	30.1	-0.90	2.6	0.9	4	TT
6FC7DB_AL	31.0	32.6	31.1	31.8	31.6	0.13	2.4	0.8	31.0	-0.18	2.3	1.0	8	AL
6RRZN4	30.2	30.7	31.5	30.2	30.6	-0.62	2.4	0.6	30.3	-0.79	2.7	0.6	8	LU
88W9JM	33.5	32.0	32.6	30.9 H	32.2	0.58	2.9	1.1	31.7	0.40	2.6	1.0	8	LU
8MLGEZ_AL	32.4	31.5	33.3 L	31.1	32.1	0.44	1.7	1.0	31.4	0.16	2.0	1.0	8	AL
9F4C27	30.4 H	29.3	28.3 *H	29.6	29.4	-1.53	3.1	0.8	31.1	-0.11	3.2	4.4 H	7	LH
9P8KMX	32.8	31.8	32.8	31.7	32.3	0.59	2.6	0.6	31.8	0.54	2.5	0.6	8	BK
9VV6RY	31.1 H	28.6	30.7	32.4 H	30.7	-0.56	3.1	1.6	30.9	-0.23	2.8	1.7	8	LH
9XL7XM_AL	32.2 L	30.4	30.4 L	31.6	31.2	-0.23	1.7	0.9	30.7	-0.43	1.7	1.3	8	XX
A3VNN3	30.6	30.4	30.1 L	27.0 X	29.5	-1.43	2.5	1.7	30.1	-0.96	2.7	1.3	8	LZ
A89M43	29.9	31.0	29.9	No DATA	30.3	-0.89	2.2	0.6	30.9	-0.29	2.4	1.1	5	LU
B6W8A2	31.5	30.8	No DATA	31.0	31.1	-0.26	2.4	0.4	31.2	-0.04	2.2	0.6	6	LA
B6W8A2_AL	32.3 L	33.3	No DATA	33.5	33.0	1.16	2.6	0.6	32.1	0.81	2.2	1.1	6	AL
BBYDP4	31.3	30.1	30.3	30.0	30.4	-0.77	2.1	0.6	31.8	0.55	2.2	3.3 H	8	LU
BHMYU6	32.2	30.5	30.7	33.6	31.7	0.21	2.6	1.4	30.9	-0.22	2.4	1.3	8	LA
BZ6ZP8	32.4 L	32.5 L	32.0 L	31.2 L	32.0	0.42	0.6	0.6	31.8	0.57	0.7	0.5	8	XX
C9TBC9	32.1	32.8	32.5	33.5 H	32.7	0.92	3.1	0.6	32.2	0.89	2.9	0.8	8	LH
CN4WXJ	30.3	29.2	31.1	29.9 L	30.1	-0.97	1.8	0.8	30.1	-0.96	2.0	0.7	8	LW
CQ9NPW_AL	32.0	30.7	31.5	31.0	31.3	-0.11	2.5	0.6	31.1	-0.04	2.4	0.6	8	AL
DLU7BZ	29.2	30.5	30.7	29.1	29.8	-1.20	2.8	0.9	30.0	-1.07	2.9	0.8	8	LZ
E4BUXZ	31.8	31.4	31.7 H	31.8	31.6	0.13	2.8	0.2 L	30.4	-0.72	2.7	1.5	8	XX
EMNEU4	32.8 L	32.1 L	31.8 L	31.0 L	31.9	0.34	0.0	0.8	31.5	0.28	0.0	0.7	8	LH
FDR3UT_AL	32.7	31.4	32.7	33.3	32.5	0.78	2.2	0.8	31.9	0.65	2.5	0.9	8	XX
GW4R2Y_AL	36.1 XL	34.3 *L	35.6 XL	33.7 L	34.9	2.56 *	0.0	1.1	35.2	3.49 X	0.0	0.9	8	AL
HHF8WV_AL	30.4	31.1	30.8	31.2	30.9	-0.43	1.9	0.4	30.9	-0.23	2.0	0.3 L	8	AL
HYJWWY	28.0 *	28.6	30.1	28.9 *	28.9	-1.89	2.3	0.9	28.9	-2.02 *	2.5	1.0	8	LZ
HYJWWY_AI	47.8 XL	51.5 XL	42.6 XL	48.9 XL	47.7	12.02 X	0.0	3.7 H	48.7	15.09 X	0.0	2.9	8	XX
JV2UPU	32.1	33.6	32.3	33.3	32.8	1.01	2.0	0.8	33.0	1.58	2.2	0.6	8	LH



Containerboard Interlaboratory Testing Program

Analysis 224

STFI, 52 lb Linerboard - 52M1

TAPPI Official Test Method T826

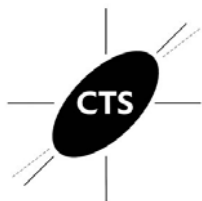
Report #672

September 2025

WebCode	Weekly Means				Monthly Results				Cumulative Results					
	Week 1	Week 2	Week 3	Week 4	Mean	CPV	SD	SD Wks	Mean	CPV	SD	SD Wks	Wks	Inst
K894QN	32.0	30.8	32.0	30.7 L	31.4	-0.06	2.0	0.7	30.8	-0.34	2.0	0.9	8	LW
KB9FLN_AL	22.3 XL	21.6 XL	22.0 XL	20.9 XL	21.7	-7.25 X	0.0	0.6	21.7	-8.21 X	0.0	0.6	4	XX
KF3ANW_AL	30.0	31.8	31.9	31.2	31.2	-0.18	2.5	0.9	31.1	-0.12	2.7	1.0	7	XX
KNVRUR	30.4	32.0	31.4	32.3	31.5	0.05	2.1	0.8	31.7	0.45	2.3	0.8	8	LH
LCYVFW	32.8 L	32.4 L	32.4 L	32.7 L	32.6	0.83	0.7	0.2 L	31.7	0.45	0.8	1.0	8	LZ
LDUEHX	29.4	30.4	30.0	30.1	30.0	-1.11	2.3	0.4	30.2	-0.89	2.4	0.9	8	LZ
MVNJFQ	32.7	32.8	32.9	32.3	32.7	0.89	2.4	0.3	32.7	1.30	2.4	0.6	8	LU
NCCAUK	31.1	30.2 H	31.3	29.9	30.6	-0.62	2.9	0.7	30.4	-0.71	2.7	0.7	7	LA
P9MGZT	34.0 *	34.4 *	33.3	34.1 L	34.0	1.85	2.0	0.5	32.4	1.08	2.1	1.9	8	LA
QLTVWK_AL	29.9 L	30.6	30.7	31.0	30.6	-0.67	2.2	0.5	30.0	-1.07	2.2	0.9	7	AL
R3UYUF	28.2 *	27.5 *	27.5 X	28.8 *	28.0	-2.57 *	2.7	0.6	28.2	-2.59 *	2.5	0.5	8	LZ
RKA9VG	32.6	No DATA	No DATA	33.4 H	33.0	1.11	3.2	0.6	32.6	1.22	2.7	0.5	4	LU
TMFXUJ	32.8	32.8	31.9	32.5 L	32.5	0.76	2.0	0.4	32.0	0.70	1.8	0.6	8	LH
U36HVP	32.5	32.1	33.2	31.7	32.4	0.67	2.7	0.6	32.4	1.01	2.7	0.6	4	XX
U832XN	29.9	30.6	31.2	30.3	30.5	-0.71	2.3	0.5	30.0	-1.01	2.5	0.8	8	XX
UH2XVJ	31.6	31.7	31.5	31.9	31.7	0.15	2.2	0.1 L	31.0	-0.12	2.3	0.7	8	LZ
VWDVDP_AL	31.7	31.3	31.3	31.5	31.5	-0.01	2.5	0.2 L	31.3	0.08	2.5	0.5	8	AL
WDYMUF	30.1	31.1	31.4	31.0	30.9	-0.42	2.0	0.6	30.3	-0.73	2.0	0.7	8	LZ
WKVDGC	31.8 L	31.6	31.8	31.7	31.7	0.19	1.9	0.1 L	32.7	1.27	1.8	1.0	8	LA
WPUPGH	32.9 L	33.2 L	32.8 L	32.8 L	32.9	1.08	1.2	0.2 L	32.8	1.41	1.3	0.2 L	8	XX
WYW8RK	29.6 L	32.4	29.7 L	31.6	30.8	-0.47	1.5	1.4	29.7	-1.33	1.5	1.7	8	LH
Y2XUF9	31.5	30.9	31.1	31.1	31.2	-0.22	2.0	0.3	30.7	-0.44	2.4	0.9	8	LU
YE2FKJ	32.4	30.0	34.7 *	32.3	32.4	0.68	2.4	1.9	32.4	1.02	2.4	1.9	4	LZ
YNCG7K	34.0 *H	33.2	32.7 H	34.9 *	33.7	1.65	3.3	1.0	33.3	1.82	2.9	1.4	8	LA
YPG889	31.9	32.9	32.8	33.1	32.7	0.90	2.4	0.5	32.7	1.32	2.5	0.6	8	LA
YPY3TF_AL	39.0 XH	38.9 XH	38.9 XH	38.1 X	38.7	5.37 X	3.2	0.5	37.9	5.78 X	3.0	1.1	8	AL
YTGH39	31.7	46.6 XH	26.7 X	32.7	34.4	2.17 *	10.3	8.5 H	34.0	2.45 *	7.6	8.8 H	8	LZ
ZWZW79	32.7 H	32.2	33.9 H	32.2	32.7	0.94	3.3	0.8	32.2	0.86	3.0	1.6	8	LW

Consensus (All Labs) Results

Wk Mean	31.34	31.26	31.48	31.56	Month Mean	31.46	Grand Mean	31.19
Avg SDr	2.27	2.35	2.30	2.44	Avg SD	2.69	Avg SD	2.52
SD btwn Labs	1.35	1.44	1.23	1.39	SD btwn Labs	1.35	SD btwn Labs	1.16
Labs Incl	59	58	54	57	SD btwn Wks	1.34	SD btwn Wks	1.63
Labs Excl	4	4	6	4	Labs Incl	60	Labs Incl	59
Labs not Rcvd	0	1	3	2				



Containerboard Interlaboratory Testing Program

Analysis 224

STFI, 52 lb Linerboard - 52M1

TAPPI Official Test Method T826

Report #672
September 2025

Key to Instrument Codes Reported by Participants

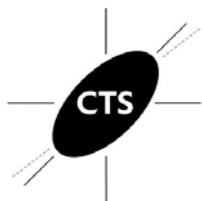
AL	L & W Autoline 400	BK	Buchel Strip Compression Tester BK-155
LA	L&W Autoline (224 Enrollment)	LH	L&W 282
LU	L&W 52 without moisture correction (was 53)	LW	L&W 53 with moisture correction (was 53M)
LY	L&W 152 with moisture correction	LZ	L&W (model not specified)
TT	TMI Short Span Compression, 17-34 (MB K455)	XX	Instrument make/model not specified by lab



Containerboard Interlaboratory Testing Program
 Analysis 228
Roughness - Stylus Method, 42 lb Linerboard - 42L4
 TAPPI Official Test Method T575

Report #672
September 2025

WebCode	Monthly Results					Cumulative Results				
	Mean	CPV	SD			Mean	CPV	SD Months	Months	Inst
487Q8C_AL	273.2	4.10 X	47.82 H			210.8	1.33	43.23	4	AL
4J3TUD	194.9	0.56	31.17			181.5	-0.05	14.05	4	XX
4J3TUD_AL	199.2	0.76	19.52			180.2	-0.11	15.19	4	AL
4JY934_AL	151.1	-1.41	15.61			203.5	0.99	51.82 H	4	AL
4YB2B8	193.2	0.49	19.97			199.2	0.78	11.04	4	EV
6FC7DB_AL	171.5	-0.49	17.65			164.0	-0.87	12.29	4	AL
6RRZN4	197.6	0.69	17.93			195.0	0.58	4.16	4	EV
A89M43	165.1	-0.78	21.91			179.7	-0.13	34.60	4	EV
B6W8A2_AL	164.9	-0.79	21.29			159.3	-1.09	4.47	4	AL
BHMYU6	200.2	0.80	14.14			191.5	0.42	14.31	4	LA
C9TBC9	189.9	0.34	21.96			179.8	-0.13	6.92	4	EV
CQ9NPW	154.0	-1.28	7.07 L			156.7	-1.22	6.51	4	LS
CQ9NPW_AL	192.3	0.45	27.31			198.5	0.75	8.80	4	AL
DLU7BZ	155.9	-1.20	22.76			151.4	-1.47	3.73 L	4	LS
FDR3UT_AL	256.1	3.33 X	26.04			253.7	3.35 X	2.07 L	4	AL
HHF8WV_AL	180.2	-0.10	15.89			184.7	0.10	7.50	4	AL
HYJWWY	0.3	-8.22 X	0.02 L			0.3	-8.57 X	0.01 L	4	LA
HYJWWY_AL	186.6	0.19	23.02			187.8	0.25	11.31	4	AL
K894QN	33.2	-6.74 X	2.04 L			135.7	-2.20 *	68.58 H	4	LA
LDUEHX	180.9	-0.07	27.19			176.5	-0.29	6.11	4	LS
LRC89Q	218.0	1.61	28.26			212.3	1.40	30.81	4	LS
NCCAUK	133.5	-2.21 *	16.95			156.2	-1.24	32.41	4	LA
P9MGZT	226.0	1.97 *	40.63 H			204.6	1.04	16.44	4	LA
QLTVWK_AL	143.1	-1.77	30.59			139.5	-2.03 *	8.97	4	AL
R3UYUF	173.1	-0.42	12.30			185.8	0.15	8.83	4	EV
U36HVP	189.5	0.32	24.68			181.0	-0.07	12.09	2	EV
UH2XVJ	197.1	0.66	19.54			193.2	0.50	5.36	4	EV
VWDVDP_AL	167.7	-0.67	23.75			181.4	-0.05	44.53	4	AL
WYW8RK	182.3	-0.01	14.45			180.0	-0.12	5.18	4	EV
YE2FKJ	177.2	-0.24	15.02			179.4	-0.15	21.23	3	LA
YNCG7K	186.0	0.16	10.62			181.9	-0.03	4.75	3	LA
YPG889	204.4	0.99	24.17			195.3	0.60	6.57	4	LA
YPY3TF_AL	4.2	-8.04 X	6.61 L			61.2	-5.71 X	39.09	4	AL
ZWZW79	214.8	1.46	34.02			232.6	2.36 *	17.66	4	XX



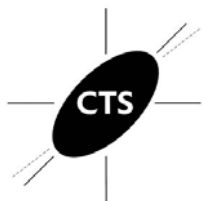
Containerboard Interlaboratory Testing Program
Analysis 228
Roughness - Stylus Method, 42 lb Linerboard - 42L
TAPPI Official Test Method T575

Report #672
September 2025

Consensus (All Labs) Results			
Month Mean	182.43	Grand Mean	182.53
Avg SD	22.55	Avg SD Months	23.58
SD btwn Labs	22.16	SD btwn Labs	21.25
Labs Incl	29	Labs Incl	31

Key to Instrument Codes Reported by Participants

AL	L & W Autoline 400	EV	Emveco Microgage Model 210-R
LA	L&W Autoline (228 Enrollment)	LS	L&W 263
XX	Instrument make/model not specified by lab		



Containerboard Interlaboratory Testing Program
 Analysis 229
Roughness - Sheffield Method, 42 lb Linerboard - 42L4
 TAPPI Official Test Method T538

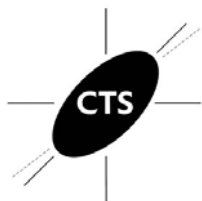
Report #672
September 2025

WebCode	Monthly Results			Cumulative Results				
	Mean	CPV	SD	Mean	CPV	SD Months	Months	Inst
487Q8C_AL	416.1	1.54	7.08	413.8	1.42	3.25	2	AL
4FKPN9_AL	396.0	0.04	6.96	395.0	0.02	1.41	2	XX
4J3TUD_AL	396.2	0.06	3.94	395.5	0.06	0.99	2	AL
6FC7DB_AL	386.1	-0.70	5.70	381.6	-0.97	6.36	2	AL
8MLGEZ_AL	400.2	0.35	9.52	400.2	0.41	0.00	2	AL
9XL7XM_AL	391.8	-0.27	3.01	391.8	-0.22	0.07	2	AL
BBYDP4	396.5	0.08	6.96	398.7	0.30	3.11	2	XX
CQ9NPW_AL	421.9	1.97 *	4.14	418.6	1.78	4.62	2	AL
FDR3UT_AL	389.4	-0.45	3.34	389.3	-0.40	0.14	2	XX
HYJWWY_AL	381.1	-1.07	5.61	378.5	-1.20	3.68	2	AL
KF3ANW	399.3	0.29	7.10	396.9	0.16	3.39	2	PP
LDUEHX	387.5	-0.59	9.61	392.4	-0.17	6.94	2	XX
MJVD7T	342.1	-3.99 X	6.05	346.5	-3.59 X	6.17	2	TS
U36HVP	404.7	0.69	8.28	406.1	0.85	1.95	2	XX
VWDVDP_AL	369.6	-1.93 *	2.76 L	367.3	-2.04 *	3.32	2	AL

Consensus (All Labs) Results			
Month Mean	395.46	Grand Mean	394.69
Avg SD	6.40	Avg SD Months	3.52
SD btwn Labs	13.37	SD btwn Labs	13.44
Labs Incl	14	Labs Incl	14

Key to Instrument Codes Reported by Participants

AL	L & W Autoline 400	PP	Technidyne Profile/Plus
TS	TMI Monitor/Smoothness	XX	Instrument make/model not specified by lab



Containerboard Interlaboratory Testing Program

Analysis 231

Internal Bond, 42 lb Linerboard - 42L

TAPPI Official Test Method T569

Report #672

September 2025

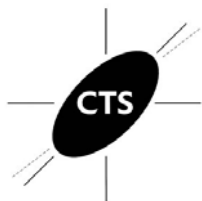
WebCode	Monthly Results					Cumulative Results				
	Mean	CPV	SD			Mean	CPV	SD Months	Months	Inst
487Q8C	0.1	-7.73 X	0.03	L		0.1	-8.89 X	0.00	1	TM
4FKPN9	188.4	1.30	7.37			174.7	1.07	12.46	4	HY
4J3TUD	151.8	-0.46	9.68			144.9	-0.63	5.04	4	TM
4MEVGA	184.8	1.13	8.20			172.0	0.92	17.09	4	HZ
4YB2B8	140.8	-0.98	3.70			146.5	-0.54	4.47	4	TM
6A6NVA	125.7	-1.71	10.43			131.3	-1.40	7.87	2	TM
6RRZN4	182.4	1.01	17.30			158.7	0.16	18.61	4	TM
8MLGEZ	170.8	0.46	5.77			168.4	0.72	13.11	4	TM
9F4C27	163.6	0.11	13.32			155.0	-0.05	12.16	2	HY
9XL7XM	170.8	0.46	14.82			167.7	0.68	18.09	4	LZ
A89M43	139.6	-1.04	10.21			129.2	-1.52	16.32	4	TM
BBYDP4	182.4	1.01	18.20			188.8	1.88	10.80	4	HY
C9TBC9	129.2	-1.54	11.12			132.2	-1.35	12.78	4	TM
CH2PGV	156.0	-0.25	10.00			161.7	0.34	8.26	3	HZ
CQ9NPW	129.4	-1.53	9.67			130.7	-1.43	2.88	4	TM
K894QN	191.2	1.43	12.91			180.2	1.39	10.22	4	HY
KB9FLN	139.2	-1.06	8.70			139.2	-0.95	0.00	1	SC
KF3ANW	179.0	0.85	12.23			172.9	0.97	8.66	4	HY
KJ8ZTQ	158.6	-0.13	10.11			146.4	-0.54	10.22	4	TM
LRC89Q	175.8	0.69	16.12			166.6	0.61	9.28	4	HY
QLTVWK	150.8	-0.50	10.55			151.4	-0.25	4.35	4	TM
UH2XVJ	195.0	1.62	4.30			178.3	1.28	12.15	4	HZ
VWDVDP	153.4	-0.38	6.31			136.0	-1.13	13.49	4	TM
WKVDGC	151.4	-0.48	13.32			151.2	-0.27	3.04	4	TM
WVEWVG	161.3	0.00	3.54			156.6	0.04	8.28	3	TM
YPY3TF	0.2	-7.73 X	0.01	L		0.1	-8.89 X	0.02 L	3	XX

Consensus (All Labs) Results

Month Mean	161.31	Grand Mean	155.85
Avg SD	11.06	Avg SD Months	11.36
SD btwn Labs	20.85	SD btwn Labs	17.52
Labs Incl	24	Labs Incl	24

Consensus By Method

Test Method	Group Mean	SD btwn Group	Difference from Grand Mean	Labs Included
Scott Bond Type	158.25	22.63	3.06	17
Modified Scott Bond Mechanics	178.79	9.91	17.48	4

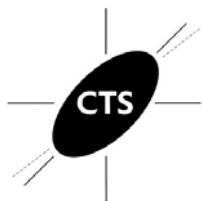


Containerboard Interlaboratory Testing Program
Analysis 231
Internal Bond, 42 lb Linerboard - 42L
TAPPI Official Test Method T569

Report #672
September 2025

Key to Instrument Codes Reported by Participants

HY	Huygen Digitized Scott Internal Bond Tester	HZ	Huygen Internal Bond Tester with AccuPress
LZ	L&W (model not specified)	SC	Scott Internal Bond Tester (Manual)
TM	TMI Monitor/Internal Bond Tester	XX	Instrument make/model not specified by lab



Containerboard Interlaboratory Testing Program
Analysis 234
COF Inclined Plane (Slide Angle), 42 lb Linerboard - 42L
 TAPPI Official Test Method T815

Report #672
September 2025

WebCode	Monthly Results			Cumulative Results			
	Mean	CPV	SD	Mean	CPV	SD Months	Months
487Q8C	23.0	-1.25	5.43	26.7	-0.28	4.60	4
4FKPN9	25.4	-0.68	4.62	25.9	-0.56	1.33	4
4J3TUD	25.6	-0.63	2.19	26.5	-0.37	0.94	4
4JY934	26.8	-0.35	3.56	29.4	0.54	2.26	4
4YB2B8	30.8	0.60	3.90	29.7	0.65	1.87	4
6FC7DB	31.5	0.77	4.53	29.3	0.52	2.96	4
6RRZN4	27.0	-0.30	2.12	25.3	-0.74	3.66	4
9F4C27	27.7	-0.13	2.17	30.6	0.92	4.88	3
9VV6RY	22.8	-1.29	1.79	20.8	-2.15 *	2.99	4
9XL7XM	21.4	-1.63	4.38	20.6	-2.19 *	0.53	4
A89M43	37.2	2.12 *	1.92	29.5	0.58	6.00 H	4
BBYDP4	25.9	-0.55	2.44	27.5	-0.03	1.24	4
C9TBC9	31.4	0.75	2.66	30.4	0.86	1.30	4
CQ9NPW	27.8	-0.11	2.49	29.2	0.48	1.28	4
DLU7BZ	21.0	-1.72	0.71 L	21.2	-2.02 *	0.66	4
EMNEU4	25.2	-0.73	0.84	25.5	-0.66	0.77	4
GW4R2Y	22.3	-1.41	1.08	24.9	-0.86	2.27	4
K894QN	27.6	-0.16	3.05	28.4	0.24	2.28	4
KB9FLN	27.5	-0.18	0.56 L	27.5	-0.03	0.00	1
KF3ANW	31.2	0.70	3.27	29.2	0.49	1.61	4
LDUEHX	30.3	0.48	1.48	27.9	0.09	5.89	4
LRC89Q	35.6	1.74	6.73 H	31.2	1.13	6.44 H	4
P9MGZT	28.2	-0.01	2.39	25.2	-0.75	2.68	3
QLTVWK	31.4	0.75	2.83	31.4	1.18	1.70	4
R3UYUF	31.4	0.74	3.14	30.1	0.77	2.28	4
UH2XVJ	35.2	1.65	6.61 H	32.7	1.58	1.99	4
VWDVDP	30.5	0.52	5.34	31.0	1.06	1.33	4
YE2FKJ	0.5	-6.59 X	0.07 L	11.1	-5.16 X	18.44 H	3
YPY3TF	25.5	-0.65	1.87	24.4	-1.01	1.63	4
ZWZW79	32.2	0.94	2.49	29.4	0.55	2.10	4

Consensus (All Labs) Results

Month Mean	28.26	Grand Mean	27.63
Avg SD	3.40	Avg SD Months	2.97
SD btwn Labs	4.22	SD btwn Labs	3.20
Labs Incl	29	Labs Incl	29

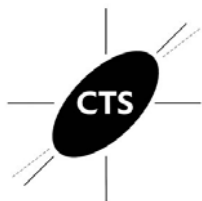


Containerboard Interlaboratory Testing Program
Analysis 234
COF Inclined Plane (Slide Angle), 42 lb Linerboard - 42L
TAPPI Official Test Method T815

Report #672
September 2025

Key to Instrument Codes Reported by Participants

ZZ Instruments No Longer Tracked



Containerboard Interlaboratory Testing Program

Analysis 237

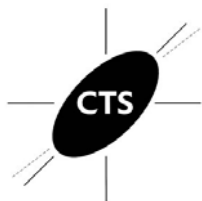
Report #672

September 2025

Air Resistance, 42 lb Linerboard - 42L

TAPPI Official Test Method T460

WebCode	Monthly Results			Cumulative Results				
	Mean	CPV	SD	Mean	CPV	SD Months	Months	Inst
38RX3A	34.5	1.05	2.22	33.9	0.68	1.64	4	LP
487Q8C_AL	0.1	-27.64 X	0.02 L	24.4	-6.74 X	16.21 H	4	AL
4FKPN9	34.1	0.78	3.38	32.8	-0.12	1.44	4	TP
4FKPN9_AL	32.2	-0.87	2.55	32.2	-0.66	0.77	4	XX
4J3TUD	33.7	0.45	1.90	33.1	0.12	1.74	4	LP
4J3TUD_AL	32.8	-0.33	1.78	35.3	1.77	1.68	4	AL
4JY934_AL	32.2	-0.83	2.52	31.2	-1.42	0.97	4	AL
4YB2B8_AL	34.8	1.30	1.35	34.0	0.76	0.76	4	AL
6A6NVA	35.0	1.47	4.45 H	35.4	1.90	0.66	2	GA
6FC7DB_AL	30.2	-2.55 *	2.53	30.3	-2.08 *	0.64	4	AL
6RRZN4	34.2	0.80	4.07 H	35.0	1.57	1.20	4	LW
8MLGEZ_AL	32.7	-0.44	1.61	31.4	-1.29	0.91	4	AL
9VV6RY	34.1	0.76	2.69	32.9	-0.08	1.46	4	LP
9XL7XM_AL	37.2	3.32 X	2.23	35.3	1.80	2.90 H	4	AL
A89M43_AL	33.7	0.40	3.81	34.2	0.90	1.17	4	AL
B6W8A2_AL	33.4	0.16	2.22	33.2	0.12	0.57	4	AL
BBYDP4	32.3	-0.76	2.61	33.4	0.28	0.78	4	TP
BHMYU6	31.6	-1.33	1.40	31.6	-1.08	0.33	4	LA
C8HBHY	34.6	1.19	2.03	33.6	0.49	1.43	4	LP
C9TBC9	33.1	-0.11	2.02	32.8	-0.17	1.74	4	LP
CH2PGV	31.8	-1.15	0.98 L	31.8	-0.91	0.00	1	LP
CQ9NPW_AL	33.0	-0.18	1.59	33.8	0.63	1.30	4	AL
DLU7BZ	32.9	-0.23	2.52	31.4	-1.25	1.20	4	TD
EMNEU4	33.1	-0.13	2.99	33.6	0.46	0.84	4	XX
FDR3UT_AL	34.2	0.84	2.80	34.4	1.12	0.75	4	XX
GW4R2Y_AL	32.2	-0.87	0.72 L	32.6	-0.29	0.32	4	XX
HHF8WV_AL	34.8	1.36	1.94	34.4	1.06	0.96	4	AL
HYJWWY_AL	32.7	-0.42	1.68	31.4	-1.21	1.90	4	XX
JV2UPU	34.4	0.99	2.07	32.5	-0.39	1.54	4	XX
K894QN	174.1	117.54 X	26.61 H	68.2	27.46 X	70.60 H	4	LP
KB9FLN_AL	32.7	-0.45	2.00	32.7	-0.26	0.00	1	AL
KF3ANW	34.3	0.88	3.66	34.4	1.08	0.38	4	TP
LDUEHX	34.6	1.18	3.27	34.5	1.19	0.22	4	GA
LRC89Q	34.2	0.85	1.24	32.8	-0.17	1.88	4	LP
NCCAUK	33.0	-0.20	2.54	32.2	-0.59	1.34	4	LA
P9MGZT	31.5	-1.46	1.68	30.9	-1.63	0.49	4	LA
QLTVWK_AL	33.8	0.48	2.20	32.9	-0.09	2.18	4	AL
RW3PNN	32.8	-0.34	2.30	33.4	0.31	0.66	3	GG
UH2XVJ	35.0	1.51	3.08	33.2	0.17	1.20	4	LP



Containerboard Interlaboratory Testing Program

Analysis 237

Report #672

September 2025

Air Resistance, 42 lb Linerboard - 42L4

TAPPI Official Test Method T460

WebCode	Monthly Results			Cumulative Results				
	Mean	CPV	SD	Mean	CPV	SD Months	Months	Inst
VWDVDP_AL	33.8	0.52	1.85	33.2	0.13	1.26	4	AL
YE2FKJ	33.3	0.03	3.35	31.8	-0.91	1.55	3	LP
YNCG7K	31.3	-1.59	1.83	33.2	0.19	1.68	3	LA
YPG889	32.1	-0.91	1.72	32.4	-0.49	0.63	4	LA
ZWZW79	31.0	-1.84	2.84	30.9	-1.64	1.00	4	LP
Consensus (All Labs) Results								
Month Mean			33.21	Grand Mean		33.00		
Avg SD			2.48	Avg SD Months		1.28		
SD btwn Labs			1.20	SD btwn Labs		1.28		
Labs Incd			41	Labs Incd		42		

Key to Instrument Codes Reported by Participants

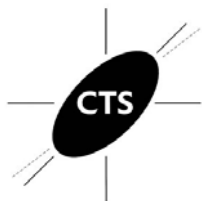
AL	L & W Autoline 400	GA	Gurley Precision #4340 Automatic Densometer
GG	Gurley Precision #4320 Densometer	LA	L&W Autoline (237 Enrollment)
LP	L&W Air Permeance Tester SE 166	LW	L&W Gurley Densometer, Oil Flotation
TD	TMI Gurley Densometer	TP	Technidyne Profile/ plus Roughness & Porosity
XX	Instrument make/model not specified by lab		



Containerboard Interlaboratory Testing Program
Analysis 240
Flat Crush Strength (CMT), 26 lb Corrugating Medium - CM13
TAPPI Official Test Method T809

Report #672
September 2025

WebCode	Weekly Means				Monthly Results				Cumulative Results					
	Week 1	Week 2	Week 3	Week 4	Mean	CPV	SD	SD Wks	Mean	CPV	SD	SD Wks	Wks	Inst
38RX3A	59.0	59.7	61.6	58.4	59.7	0.61	3.4	1.4	59.7	0.65	3.8	1.8	16	LD
4AEYJG	55.3	57.7	54.2	55.2	55.6	-0.85	3.9	1.5	56.0	-0.70	4.1	1.8	12	LD
4FKPN9	56.5 L	55.7	57.8	55.1	56.3	-0.59	3.6	1.2	57.3	-0.21	3.5	1.2	16	LD
4J3TUD	51.5	51.3 *	52.9	50.4 *	51.5	-2.28 *	4.7	1.1	51.6	-2.30 *	4.0	0.9	16	LD
4JY934	57.6 L	56.5	58.6	56.5	57.3	-0.23	3.0	1.0	57.0	-0.34	4.7	1.9	16	LZ
4MEVGA	61.8	59.1	59.0	60.4	60.1	0.76	3.2	1.3	58.4	0.20	3.1	1.8	16	LD
6RRZN4	54.7	57.5	55.0	55.1	55.6	-0.85	3.1	1.3	55.8	-0.78	3.6	1.3	16	LD
88W9JM	66.5 *	64.3	62.9 H	61.8	63.9	2.10 *	5.1	2.0	61.5	1.30	4.4	2.2	16	LD
9P8KMX	57.1	57.9	60.6	59.8	58.8	0.31	3.4	1.6	58.5	0.23	3.2	1.4	16	LZ
9VV6RY	60.1	58.1	59.5	56.8	58.6	0.22	3.8	1.5	58.7	0.29	3.5	1.8	16	LD
9XL7XM	52.6	52.7	53.1	53.8	53.1	-1.73	2.9	0.5	53.8	-1.49	3.1	1.3	16	LD
ADRW86	57.0	57.0	57.1	56.4	56.9	-0.38	4.6	0.3	57.7	-0.07	3.8	1.2	16	LD
BBYDP4	58.3	55.7	59.5	57.0	57.6	-0.12	3.6	1.6	57.3	-0.20	5.6	1.8	16	LC
C8HBHY	57.5	57.4	56.3	56.9	57.0	-0.33	3.0	0.5	57.8	-0.02	2.7	1.5	16	LD
CQC9H7	55.8	56.5	56.1	55.9	56.1	-0.67	3.8	0.3	57.2	-0.23	3.8	1.2	16	TX
DM9VA7	62.2	61.1	60.3	59.8	60.8	1.02	3.6	1.1	58.6	0.26	3.5	2.3	16	TX
E4BUXZ	59.6 L	63.2 L	61.6	60.8 L	61.3	1.19	1.0	1.5	61.1	1.15	0.8	1.3	16	XX
EMNEU4	59.2	58.1	59.9	58.7	59.0	0.36	3.9	0.8	60.0	0.78	3.9	1.4	16	LD
HYJWWY	56.2 H	53.6	55.5	54.4	54.9	-1.07	5.0	1.1	54.9	-1.11	3.9	1.6	16	LD
JV2UPU	55.7	54.7	53.6	57.2	55.3	-0.95	2.2	1.5	54.1	-1.39	3.6	1.6	16	LD
K894QN	59.9	60.2	59.5	60.0	59.9	0.68	3.9	0.3	58.5	0.24	3.8	1.4	16	XX
KF3ANW	54.9	54.9	54.3	55.4	54.9	-1.09	3.4	0.4	54.3	-1.30	3.4	1.2	15	LD
KNVRUR	56.5	56.5	54.8	54.8	55.7	-0.81	2.8	1.0	55.9	-0.74	2.7	1.1	16	EM
LCYVFW	56.8 L	56.0 L	54.5 L	55.6 L	55.7	-0.79	1.4	0.9	54.8	-1.12	2.1	1.6	16	XX
LDUEHX	59.7	57.1	58.4	58.3	58.4	0.15	4.1	1.1	59.8	0.70	4.1	1.4	16	LZ
LRC89Q	No DATA	No DATA	No DATA	59.8	59.8	0.64	3.8	0.0	58.9	0.37	3.3	1.9	4	LD
P9MGZT	55.4	57.7	58.3	57.9	57.3	-0.22	4.2	1.3	54.6	-1.18	4.7	3.9	12	MB
PD2XR7	54.7	56.2	53.2	54.0	54.5	-1.22	3.5	1.3	54.4	-1.26	4.2	1.2	8	LD
R3UYUF	56.8	56.7	60.3	57.3 H	57.8	-0.06	4.8	1.7	58.3	0.14	4.2	1.3	16	EN
RJHALP	42.3 X	42.5 X	42.3 X	45.4 X	43.1	-5.26 X	3.9	1.6	47.4	-3.83 X	3.9	5.1 H	16	TH
RVQZFK	58.2 L	58.3 L	58.1 L	58.3 L	58.2	0.09	0.6	0.1 L	58.0	0.05	2.4	0.7	16	LD
TMFXUJ	55.0	56.3	53.5	52.7	54.4	-1.27	3.1	1.6	54.5	-1.22	3.3	1.4	16	LD
U36HVP	58.9	58.3	60.3	55.1	58.1	0.06	4.0	2.2	58.0	0.04	4.0	1.9	8	XX
U3KYQH	61.8	63.4	64.9	62.5	63.1	1.84	2.7	1.3	62.5	1.68	2.3	1.0	16	TB
U4FHTJ	53.2	55.2	54.9	58.6	55.5	-0.88	3.6	2.3	55.5	-0.88	3.6	2.3	4	LD



Containerboard Interlaboratory Testing Program
Analysis 240
Flat Crush Strength (CMT), 26 lb Corrugating Medium - CM13
 TAPPI Official Test Method T809

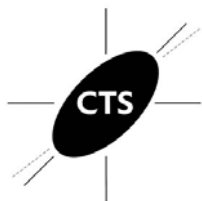
Report #672
September 2025

WebCode	Weekly Means				Monthly Results				Cumulative Results					Inst
	Week 1	Week 2	Week 3	Week 4	Mean	CPV	SD	SD Wks	Mean	CPV	SD	SD Wks	Wks	
UH2XVJ	58.8	59.6	60.4	57.4	59.1	0.39	3.6	1.3	57.8	-0.02	4.1	1.5	16	LZ
VWDVDP	54.6	56.6	55.8	56.8	56.0	-0.71	3.0	1.0	55.3	-0.94	3.3	1.4	16	LD
WDFRCE	66.8 *	68.2 *	68.0 *	68.6 X	67.9	3.52 X	2.3	0.8	65.2	2.68 *	2.5	3.2	12	LD
WDYMUF	59.2	59.2	59.3	54.7	58.1	0.05	4.6	2.3	58.5	0.24	4.3	1.7	16	EN
WKVDGC	57.2 L	61.3	60.7	61.1	60.1	0.75	2.3	1.9	60.5	0.97	2.9	1.9	16	LC
WPUPGH	57.0 L	57.3 L	57.3 L	57.4 L	57.2	-0.26	0.6	0.1 L	58.0	0.06	0.5	1.1	16	TU
XL43YE	60.5	62.0 L	61.8	62.0	61.6	1.29	2.0	0.7	61.9	1.45	2.4	0.6	16	LC
Y2XUF9	57.6 H	56.3	57.9	56.3	57.0	-0.32	4.8	0.8	58.7	0.31	4.6	1.6	12	LD
YE2FKJ	66.3 *	65.5	66.0 *	71.0 X	67.2	3.26 X	4.5	2.5	56.0	-0.69	3.8	10.4 H	12	LD
YPG889	67.2 *H	65.6	63.5	64.8 *H	65.3	2.60 *	5.7	1.6	62.0	1.49	4.4	3.3	16	TU
YPY3TF	60.9	61.3	60.2	60.6	60.8	0.99	3.8	0.5	60.8	1.05	3.8	0.5 L	4	LZ
YTGH39	67.0 *	68.4 *	51.7	58.7 H	61.5	1.24	5.2	7.8 H	62.0	1.49	4.7	4.0	16	LD
ZWZW79	60.1	58.3	57.4	59.7	58.9	0.33	3.6	1.2	59.0	0.40	3.4	1.2	16	LD

					Consensus (All Labs) Results			
Wk Mean	58.45	58.57	58.26	57.55	Month Mean	57.95	Grand Mean	57.89
Avg SDr	3.85	3.48	3.59	3.63	Avg SD	3.65	Avg SD	3.65
SD btwn Labs	3.79	3.73	3.64	2.84	SD btwn Labs	2.82	SD btwn Labs	2.74
Labs Incl	46	46	46	45	SD btwn Wks	1.73	SD btwn Wks	2.34
Labs Excl	1	1	1	3	Labs Incl	45	Labs Incl	47
Labs not Rcvd	1	1	1	0				

Key to Instrument Codes Reported by Participants

EM	Emerson 1200 Series	EN	Emerson 2200 Series
LC	L&W Crush Tester 48	LD	L&W Crush Tester 248
LZ	L&W Crush Tester (model not specified)	MB	Messmer Buchel K440
TB	TMI Monitor/Compression Tester, 17-70	TH	TMI Compression Tester, Model 17-76
TU	TMI Universal Crush Tester (TMI K440)	TX	TMI Crush Tester (model not specified)
XX	Instrument make/model not specified by lab		



Containerboard Interlaboratory Testing Program

Analysis 250

Report #672

September 2025

Fluted Edge Crush Strength (CFC), 26 lb Corrugating Medium - CM13

TAPPI Official Test Method T843

WebCode	Weekly Means				Monthly Results				Cumulative Results					
	Week 1	Week 2	Week 3	Week 4	Mean	CPV	SD	SD Wks	Mean	CPV	SD	SD Wks	Wks	Inst
38RX3A	66.5	69.9	67.7	66.3	67.6	0.24	3.5	1.7	68.2	0.52	3.6	2.1	16	LD
4FKPN9	69.5	70.4	71.5	70.0	70.4	0.96	4.0	0.9	69.6	0.95	3.8	1.0	16	LD
4J3TUD	58.5 *	56.9 *	60.0	57.9 *	58.3	-2.15 *	4.2	1.3	56.0	-3.32 X	5.0	2.6	16	LD
4JY934	61.0	63.2	61.1	63.0	62.1	-1.19	4.7	1.2	62.3	-1.34	4.4	2.0	16	LZ
9P8KMX	66.4	65.3	66.4	67.7	66.5	-0.04	3.3	1.0	65.4	-0.37	2.9	1.3	16	LZ
9XL7XM	67.8	68.0	67.0	65.5	67.1	0.12	3.2	1.1	67.4	0.26	3.7	1.9	16	LD
BBYDP4	69.1	70.0	66.2	66.0	67.8	0.30	2.9	2.0	67.8	0.39	3.0	2.5	16	LC
C8HBHY	70.9	71.5	69.4	69.4	70.3	0.94	3.1	1.1	69.9	1.04	3.0	1.3	16	LD
E4BUXZ	72.5 L	70.7 L	73.4 L	71.7	72.1	1.40	1.2	1.2	71.3	1.48	1.0	1.3	16	XX
EMNEU4	61.5	60.3 H	58.5 *	59.3	59.9	-1.74	4.7	1.3	59.4	-2.26 *	4.4	1.3	16	XX
HYJWWY	66.3	67.5	68.2	69.5	67.9	0.32	3.8	1.3	64.6	-0.62	3.7	2.6	16	XX
K894QN	70.6	71.8	70.3	70.6	70.8	1.08	4.0	0.7	69.6	0.95	3.7	1.1	16	XX
KF3ANW	69.8	67.4	68.6	69.0	68.7	0.53	4.0	1.0	68.5	0.61	3.7	1.6	15	LD
LCYVFW	63.7 L	63.6 L	62.2 L	62.7 L	63.1	-0.93	0.8	0.7	62.5	-1.28	1.6	0.8	16	XX
VWDVDP	66.9	69.9	67.2	65.5	67.4	0.19	3.4	1.8	68.0	0.47	3.9	1.7	16	LD
WDFRCE	69.8	69.6	70.5	71.0	70.2	0.93	1.9	0.6	69.1	0.80	2.5	2.7	12	LD
WDYMUF	67.7	67.6	68.6	67.7	67.9	0.32	2.7	0.5	66.2	-0.11	2.4	1.8	16	LC
Y2XUF9	66.6	67.7	67.6	66.8	67.2	0.14	3.9	0.6	66.2	-0.11	4.0	1.2	12	LD
YE2FKJ	60.9	59.3	61.5	60.3	60.5	-1.59	3.9	0.9	61.9	-1.45	3.6	5.1 H	12	LD
ZWZW79	68.1	67.5	65.6	68.1	67.3	0.18	3.0	1.2	66.8	0.08	4.6	1.5	16	LD

Consensus (All Labs) Results									
Wk Mean	66.70	66.90	66.58	66.40	Month Mean	66.64	Grand Mean	66.56	
Avg SDr	3.53	3.24	3.36	3.67	Avg SD	3.46	Avg SD	3.45	
SD btwn Labs	3.80	4.21	4.01	3.95	SD btwn Labs	3.86	SD btwn Labs	3.18	
Labs Incl	20	20	20	20	SD btwn Wks	1.17	SD btwn Wks	2.06	
Labs Excl	0	0	0	0	Labs Incl	20	Labs Incl	19	
Labs not Rcvd	0	0	0	0					

Key to Instrument Codes Reported by Participants

LC L&W Crush Tester 48

LD L&W Crush Tester 248

LZ L&W Crush Tester (model not specified)

XX Instrument make/model not specified by lab



Containerboard Interlaboratory Testing Program
Analysis 255
Ring Crush (RCT), 26 lb Corrugating Medium - CM13
 TAPPI Official Test Method T822

Report #672
September 2025

WebCode	Weekly Means				Monthly Results				Cumulative Results					
	Week 1	Week 2	Week 3	Week 4	Mean	CPV	SD	SD Wks	Mean	CPV	SD	SD Wks	Wks	Inst
38RX3A	40.7	41.3	39.3	40.6	40.5	-0.69	2.6	0.8	39.8	-1.27	2.9	1.8	16	LD
4AEYJG	41.9	41.5	42.9	39.1	41.3	-0.23	3.2	1.6	40.7	-0.71	3.0	1.6	12	LD
4FKPN9	41.1	40.9	44.0	43.6 L	42.4	0.36	2.8	1.6	42.0	0.12	2.8	1.1	16	LD
4MEVGA	42.4	41.2	41.7	43.6	42.2	0.26	3.5	1.0	43.0	0.70	3.0	1.2	16	LD
6PM8YB	43.8	38.4	43.9	41.6	41.9	0.10	2.5	2.6	42.7	0.50	2.9	2.2	16	TH
9VV6RY	37.7 *H	38.1	38.7 H	38.3	38.2	-1.96 *	4.7	0.4	41.1	-0.47	3.5	2.2	16	LD
9XL7XM	45.3	43.5	44.9	42.9	44.1	1.33	2.7	1.1	43.9	1.27	3.3	1.7	16	LD
ADRW86	40.1	38.7	38.2	39.4	39.1	-1.47	3.1	0.9	39.8	-1.26	3.2	1.5	16	LD
BBYDP4	41.7	40.0	43.8	42.7	42.1	0.17	2.5	1.6	42.2	0.19	3.1	1.5	16	LC
C8HBHY	42.6	40.7	40.0	40.7	41.0	-0.40	2.0	1.1	41.3	-0.37	2.0	0.8	16	LD
DM9VA7	38.9	42.4	40.0	39.5	40.2	-0.84	2.7	1.5	39.7	-1.32	2.8	2.5	16	LZ
HYJWWY	43.9	41.0	42.8	43.4	42.8	0.57	3.3	1.3	41.0	-0.51	3.4	2.3	16	LD
JV2UPU	43.4	44.1	44.9	43.8	44.1	1.29	2.9	0.6	44.8	1.83	2.5	1.3	16	LD
K894QN	41.7	41.4	43.8	44.1	42.7	0.55	3.3	1.4	41.4	-0.27	3.6	1.4	16	XX
KF3ANW	42.1	40.5	41.1	41.7	41.3	-0.22	3.5	0.7	42.5	0.39	3.3	1.2	15	LD
LCYVFW	44.4 L	44.5 L	44.4 L	43.5	44.2	1.36	1.2	0.5	44.0	1.33	1.4	1.6	16	MZ
LDUEHX	40.3	40.4	39.9	40.6	40.3	-0.80	2.4	0.3	40.9	-0.59	3.0	1.3	16	LD
P9MGZT	43.6	45.0	43.7	44.0	44.1	1.29	2.9	0.7	42.7	0.50	4.2	2.6	12	MB
PD2XR7	43.0	44.7	42.9	42.8	43.3	0.88	2.6	0.9	43.2	0.85	2.4	0.6	8	LC
RVQZFK	43.6 L	43.5 L	43.4 L	43.3 L	43.4	0.95	0.5	0.2 L	43.5	1.00	0.6	0.2 L	16	LD
U36HVP	40.5	37.2 H	37.7 *	38.3	38.4	-1.83	4.3	1.5	38.8	-1.89	4.1	1.7	8	MZ
U3KYQH	41.5	42.6	41.7	41.8	41.9	0.10	2.1	0.5	56.2	8.85 X	2.1	25.3 H	16	XX
U4FHTJ	42.2	46.4 *	44.0	47.3 *	45.0	1.79	3.1	2.3	45.0	1.92 *	3.1	2.3	4	EM
WPUPGH	41.1 L	41.0 L	41.2 L	41.3 L	41.1	-0.33	0.5	0.1 L	41.4	-0.27	0.6	0.6	16	TU
XL43YE	42.9	42.7	42.2 L	42.8 L	42.6	0.49	1.5	0.3	55.3	8.31 X	1.8	24.2 H	16	XX
YPY3TF	37.7 *	43.3	42.5	37.6	40.3	-0.83	3.2	3.0	40.3	-0.98	3.2	3.0	4	LZ
YTGH39	47.8 X	37.0	39.7	34.9 *H	39.9	-1.05	5.0	5.7 H	41.9	0.05	4.4	4.5 H	16	LZ
ZV3GXH	40.2 H	39.1	40.7 H	40.8	40.2	-0.85	4.6	0.8	40.6	-0.74	4.6	2.8	16	XX

					Consensus (All Labs) Results			
Wk Mean	41 . 79	41 . 46	41 . 92	41 . 57	Month Mean	41 . 74	Grand Mean	41 . 85
Avg SDr	2 . 87	3 . 05	2 . 82	3 . 27	Avg SD	3 . 02	Avg SD	3 . 10
SD btwn Labs	1 . 90	2 . 41	2 . 11	2 . 54	SD btwn Labs	1 . 80	SD btwn Labs	1 . 62
Labs Incl	27	28	28	28	SD btwn Wks	1 . 67	SD btwn Wks	1 . 97
Labs Excl	1	0	0	0	Labs Incl	28	Labs Incl	26
Labs not Rcvd	0	0	0	0				

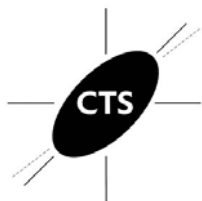


Containerboard Interlaboratory Testing Program
Analysis 255
Ring Crush (RCT), 26 lb Corrugating Medium - CM13
TAPPI Official Test Method T822

Report #672
September 2025

Key to Instrument Codes Reported by Participants

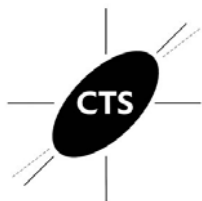
EM	Emerson 1200 Series	LC	L&W Crush Tester 48
LD	L&W Crush Tester 248	LZ	L&W Crush Tester (model not specified)
MB	Messmer Buchel K440	MZ	Messmer Buchel (model not specified)
TH	TMI Compression Tester, Model 17-76	TU	TMI Universal Crush Tester (TMI K440)
XX	Instrument make/model not specified by lab		



Containerboard Interlaboratory Testing Program
Analysis 261
STFI, 26 lb Corrugating Medium - CM13
TAPPI Official Test Method T826

Report #672
September 2025

WebCode	Weekly Means				Monthly Results				Cumulative Results					
	Week 1	Week 2	Week 3	Week 4	Mean	CPV	SD	SD Wks	Mean	CPV	SD	SD Wks	Wks	Inst
4J3TUD	13.2	13.2	13.0	13.3	13.2	-0.73	1.3	0.1	13.0	-0.95	1.4	0.2	16	LB
4MEVGA	13.2	14.1	14.2	13.9	13.9	0.49	1.0	0.5	14.2	1.28	1.3	0.5	16	XX
9VV6RY	12.8	13.6	13.7 L	13.7	13.5	-0.22	1.0	0.4	13.6	0.07	1.1	0.4	16	XX
9XL7XM	13.4	13.8	14.8 L	13.7	13.9	0.58	0.9	0.6	13.9	0.64	0.9	0.4	16	LA
A3VNN3	12.8	13.3	13.6	12.6	13.1	-0.94	1.1	0.5	13.4	-0.31	1.2	0.7	8	XX
ADRW86	14.1 L	12.2	12.9	13.0 L	13.1	-0.95	0.7	0.8	13.1	-0.83	0.9	0.5	12	LH
BBYDP4	13.2	13.0	13.6	13.5	13.4	-0.41	1.0	0.3	13.5	-0.07	1.0	0.3	16	LU
BHMYU6	13.6	12.9	12.6	13.7 H	13.2	-0.70	1.4	0.5	13.3	-0.38	1.2	0.8	16	LA
CQ9NPW	14.4	14.0	13.3	13.5	13.8	0.34	1.3	0.5	14.0	0.89	1.2	0.5	16	LA
CQC9H7	13.0	13.4	13.1	13.7	13.3	-0.52	1.2	0.3	13.1	-0.75	1.2	0.4	16	TX
DM9VA7	13.9	13.0	12.2 *L	12.2 *	12.8	-1.36	1.0	0.8	13.1	-0.83	1.3	0.8	16	XX
E4BUXZ	12.8	14.8	13.5	13.3	13.6	0.01	1.2	0.8	12.8	-1.41	1.0	0.8	16	XX
EMNEU4	14.9	13.9 L	14.1 L	13.7 L	14.1	1.00	1.0	0.5	14.0	0.76	1.0	0.4	16	LH
HYJWWY	13.5	12.1 H	12.9	13.1	12.9	-1.24	1.4	0.6	12.7	-1.55	1.1	0.8	16	LZ
KF3ANW	13.7	13.2	13.8 H	13.2	13.5	-0.22	1.2	0.3	13.4	-0.35	1.1	0.3	15	LB
KNVRUR	14.2	13.3	13.9	14.4	14.0	0.66	1.1	0.5	14.2	1.17	1.1	0.4	16	LH
LCYVFW	13.4 L	13.7 L	13.8 L	13.4 L	13.6	-0.04	0.2	0.2	13.5	-0.09	0.4	0.4	16	LZ
LDUEHX	13.3	13.2	12.5	12.9	13.0	-1.03	0.9	0.4	13.2	-0.70	1.0	0.3	16	LB
LRC89Q	No DATA	No DATA	No DATA	13.1	13.1	-0.83	0.8	0.0	13.1	-0.79	0.9	0.2	4	LH
MVNJFQ	13.4	13.5	13.9	14.4	13.8	0.42	1.2	0.5	13.7	0.32	1.1	0.6	16	LU
P9MGZT	14.6	14.7	13.4	14.0 L	14.2	1.08	1.2	0.6	13.8	0.42	1.2	0.6	16	LA
RJHALP	12.4	12.3	12.9	13.8	12.9	-1.30	1.1	0.7	17.6	7.54 X	1.2	5.0 H	16	TS
U36HVP	14.4	13.7 H	13.5	13.4	13.8	0.32	1.3	0.5	13.7	0.36	1.3	0.3	8	XX
U4FHTJ	12.1 *L	12.5 L	12.4 L	12.7 L	12.4	-2.10 *	0.0	0.3	12.4	-2.10 *	0.0	0.3	4	LH
VWDVDP	14.1	14.3	13.8	14.1	14.1	0.88	1.1	0.2	14.2	1.26	1.1	0.5	16	LA
WDFRCE	14.2	13.8	14.1 L	13.6	13.9	0.64	0.8	0.3	13.7	0.33	0.9	0.5	12	LA
WKVDGC	13.5	14.4	14.1	13.7	13.9	0.61	1.1	0.4	13.8	0.41	1.1	0.4	16	LA
WPUPGH	13.8	13.9	14.1	13.9	13.9	0.61	0.8	0.1 L	13.7	0.29	1.0	0.3	16	XX
YE2FKJ	14.3	15.2 *	14.3	14.0	14.5	1.57	1.1	0.5	14.2	1.16	0.9	0.5	12	LA
YNCG7K	15.1 *H	15.0 H	13.8 H	14.6	14.6	1.88	2.0	0.6	14.5	1.82	1.5	0.6	12	LA
YPG889	15.0	14.4	15.1 *	14.6	14.8	2.13 *	1.2	0.3	14.4	1.55	1.0	0.5	16	LA
YTGH39	12.4	10.9 X	17.9 XH	11.7 X	13.2	-0.64	1.5	3.2 H	12.7	-1.63	1.4	2.1 H	14	LZ



Containerboard Interlaboratory Testing Program

Analysis 261

STFI, 26 lb Corrugating Medium - CM13

TAPPI Official Test Method T826

Report #672

September 2025

Consensus (All Labs) Results								
Wk Mean	13.64	13.62	13.56	13.57	Month Mean	13.58	Grand Mean	13.54
Avg SDr	1.12	1.19	1.14	1.11	Avg SD	1.14	Avg SD	1.11
SD btwn Labs	0.77	0.81	0.69	0.57	SD btwn Labs	0.56	SD btwn Labs	0.54
Labs Incl	31	30	30	31	SD btwn Wks	0.75	SD btwn Wks	0.62
Labs Excl	0	1	1	1	Labs Incl	32	Labs Incl	31
Labs not Rcvd	1	1	1	0				

Key to Instrument Codes Reported by Participants

LA	L&W Autoline	LB	L&W Model 152
LH	L&W 282	LU	L&W 52 without moisture correction (was 53)
LZ	L&W (model not specified)	TS	TMI Monitor/STFI Compression Tester, 17-33
TX	TMI (model not specified)	XX	Instrument make/model not specified by lab

End of Report