

Containerboard Interlaboratory Testing Program

Participant Summary Report #677 - February 2026

[Introduction to the Containerboard Program](#)

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

Analysis	Sample	Analysis Name
<u>201</u>	<u>BX20</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>42N1</u>	<u>Bursting Strength (Mullen), 42 lb Linerboard</u>
<u>207</u>	<u>31K1</u>	<u>Bursting Strength (Mullen), 31 lb Linerboard</u>
<u>215</u>	<u>42N1</u>	<u>Ring Crush, 42 lb Linerboard</u>
<u>217</u>	<u>31K1</u>	<u>Ring Crush, 31 lb Linerboard</u>
<u>223</u>	<u>42N1</u>	<u>STFI, 42 lb Linerboard</u>
<u>225</u>	<u>31K1</u>	<u>STFI, 31 lb Linerboard</u>
<u>228</u>	<u>42N</u>	<u>Roughness - Stylus Method, 42 lb Linerboard</u>
<u>229</u>	<u>42N1</u>	<u>Roughness - Sheffield Method, 42 lb Linerboard</u>
<u>231</u>	<u>42N1</u>	<u>Internal Bond, 42 lb Linerboard</u>
<u>234</u>	<u>42N</u>	<u>COF Inclined Plane (Slide Angle), 42 lb Linerboard</u>
<u>237</u>	<u>42N1</u>	<u>Air Resistance, 42 lb Linerboard</u>
<u>240</u>	<u>CM61</u>	<u>Flat Crush Strength (CMT), 26 lb Corrugating Medium</u>
<u>250</u>	<u>CM61</u>	<u>Fluted Edge Crush Strength (CFC), 26 lb Corrugating Medium</u>
<u>255</u>	<u>CM61</u>	<u>Ring Crush (RCT), 26 lb Corrugating Medium</u>
<u>261</u>	<u>CM61</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	CM61	December 2025 - Current
	CM13	September 2023 - November 2025
31# Linerboard	31K1	August 2024 - Current
	35E3	June 2022 - June 2024
42# Linerboard	42N1	December 2025 - Current
	42L4	August 2025 - November 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 Incd - 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 - BX20
 TAPPI Official Test Method T804

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WebCode	Monthly Results			Cumulative Results				
	Mean	CPV	SD	Mean	CPV	SD Months	Months	Inst
384WHT	638.2	0.40	46.45	617.7	0.17	28.99	2	ER
39D3YM	655.5	0.88	29.76	655.5	1.08	0.00	1	LO
6BC39J	659.6	1.00	37.36	616.1	0.13	61.59	2	LS
CQLQCR	586.1	-1.04	52.30	606.3	-0.10	28.64	2	LG
EFX46F	592.0	-0.87	45.15	592.0	-0.44	0.00	1	XX
FYPD3B	564.2	-1.64	48.04	562.1	-1.16	2.97	2	LG
G6PBQ6	652.6	0.80	36.11	580.7	-0.71	101.66	2	TB
LJAKE6	639.6	0.44	34.65	601.7	-0.21	53.54	2	ER
LRMAJ6	627.4	0.11	47.74	602.0	-0.20	35.92	2	LG
LYLYV4	636.6	0.36	13.46	620.3	0.23	22.99	2	EX
M4TGJG	486.4	-3.79 X	59.67	504.5	-2.54 *	25.55	2	LL
NM7NJX	587.2	-1.01	28.57	590.4	-0.48	4.41	2	LS
NTDL4H	605.6	-0.50	47.31	635.8	0.61	42.71	2	EX
PJF26Z	644.7	0.58	42.26	646.7	0.87	2.94	2	LM
QDAUYW	664.2	1.12	46.64	650.9	0.97	18.89	2	LG
QDUBEY	560.2	-1.75	55.89	574.1	-0.87	19.59	2	EX
QGTLYB	596.0	-0.76	53.09	580.7	-0.71	21.67	2	EX
QQWC4G	645.4	0.60	15.18	611.0	0.01	48.65	2	LG
QZNFZ3	584.4	-1.08	43.03	571.8	-0.93	17.82	2	LG
R6V6Y3	582.2	-1.14	20.48	572.8	-0.90	13.39	2	EX
T4EBXT	673.8	1.39	75.34	700.2	2.15 *	37.42	2	ET
U68GVX	623.4	-0.01	16.87	610.3	0.00	18.48	2	ER
V9MB8P	597.3	-0.73	41.08	599.0	-0.28	2.39	2	ER
V9MDWT	647.2	0.65	7.53 L	639.1	0.68	11.46	2	EX
VVABBV	628.0	0.12	24.41	633.4	0.55	7.64	2	EX
WL7FTQ	698.4	2.07 *	23.61	698.4	2.11 *	0.00	1	LS

Consensus (All Labs) Results			
Month Mean	623.59	Grand Mean	610.51
Avg SD	40.40	Avg SD Months	35.51
SD btwn Labs	36.15	SD btwn Labs	41.75
Labs Incd	25	Labs Incd	26



Containerboard Interlaboratory Testing Program
 Analysis 201
Top to Bottom Box Compression Strength, Corrugated Boxes - BX20
 TAPPI Official Test Method T804

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Consensus By Method

Test Method	Group Mean	SD btwn Group	Difference from Grand Mean	Labs Included
Hot melt adhesive sealing	616.61	34.15	6.98	9
Water based adhesive sealing	698.40	0.00	74.81	1
Clip sealing	624.61	34.30	1.02	14
Staple sealing	597.28	0.00	26.31	1

Key to Instrument Codes Reported by Participants

ER	Emerson 6200 Series	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	XX	Instrument make/model not specified by lab



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

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WebCode	Monthly Results			Cumulative Results				
	Mean	CPV	SD	Mean	CPV	SD Months	Months	Inst
39D3YM	44.6	0.62	1.68	44.6	0.71	0.00	1	LZ
7X3EK2	40.7	-0.36	2.04	40.8	-0.28	0.53	4	XX
L39DQ6	39.4	-0.70	5.38 H	38.4	-0.92	1.48	4	TH
MD4J6H	38.6	-0.90	1.16	39.7	-0.59	1.76	4	TS
NM7NJX	41.6	-0.13	1.69	38.2	-0.96	2.71	4	LD
NTDL4H	47.5	1.36	1.53	46.2	1.15	1.03	4	LC
QGTLBY	44.8	0.68	1.51	44.5	0.70	0.47	4	LC
QZNFZ3	44.2	0.51	1.10 L	44.8	0.77	0.56	4	EX
RUB7JD	47.8	1.43	1.07 L	47.8	1.56	0.00	1	EM
U68GVX	35.3	-1.72	4.70 H	36.8	-1.34	2.58	4	EN
YGKA9L	91.1	12.34 X	3.58	77.1	9.28 X	28.20 H	3	TD
ZGZKB7	39.1	-0.77	0.74 L	38.8	-0.81	1.26	4	TS

Consensus (All Labs) Results			
Month Mean	42.13	Grand Mean	41.87
Avg SD	2.52	Avg SD Months	1.59
SD btwn Labs	3.97	SD btwn Labs	3.79
Labs Incd	11	Labs Incd	11

Key to Instrument Codes Reported by Participants

EM	Emerson 1200 Series	EN	Emerson 2200
EX	Emerson (model not specified)	LC	L&W Crush Tester 48
LD	L&W Crush Tester 248	LZ	L&W Crush Tester (model not specified)
TD	TMI Digital Crush Tester, Model 17-09	TH	TMI Monitor/Compression Tester, Model 17-76
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 #677
February 2026

WebCode	Monthly Results				Cumulative Results					
	Mean	CPV	SD		Mean	CPV	SD	Months	Months	Inst
2ZQNGQ	39.3	-1.73	3.68	H	35.7	-2.57 *	5.32	H	4	XX
384WHT	46.7	0.19	2.14		46.2	0.14	1.21		4	EM
39D3YM	44.6	-0.35	1.68		44.5	-0.29	2.01		3	LD
4J98DZ	38.2	-2.01 *	1.51		37.3	-2.14 *	0.73		4	BU
6BC39J	47.0	0.26	2.09		46.8	0.31	2.37		4	EM
7WE9FP	47.6	0.43	1.38		45.9	0.07	1.25		4	LD
7X3EK2	43.1	-0.72	1.93		44.7	-0.23	1.26		4	XX
943C9V	50.9	1.28	1.99		47.5	0.49	4.36		4	TU
BKKK8H	45.0	-0.26	3.75	H	41.6	-1.02	6.40	H	4	IX
E46MFE	36.8	-2.38 *	2.23		38.5	-1.85	3.38		4	TD
FYPD3B	49.2	0.84	1.79		48.7	0.79	1.22		4	EM
G6PBQ6	55.9	2.56 *	0.51	L	51.3	1.47	3.27		4	LD
KR9PV2	46.9	0.25	2.23		46.8	0.32	0.26	L	4	LC
KXVDP8	45.9	-0.02	1.95		45.0	-0.15	1.97		4	TG
L39DQ6	46.6	0.18	1.73		44.9	-0.19	2.84		4	TH
LJAKE6	41.4	-1.18	1.77		42.2	-0.87	1.00		4	LD
LMTFGX	49.5	0.91	2.64		51.8	1.60	1.56		4	TE
LUCKE6	47.6	0.43	0.79	L	48.7	0.80	1.70		4	EM
MD4J6H	44.3	-0.42	2.59		43.8	-0.47	0.96		4	TS
NM7NJX	43.1	-0.75	1.18		44.0	-0.41	1.67		4	LD
NTDL4H	47.6	0.42	1.43		48.4	0.73	1.32		4	LC
PJF26Z	46.6	0.17	1.15		45.2	-0.10	1.07		4	EM
PLLYLH	45.3	-0.16	3.11	H	45.3	-0.07	1.37		4	EM
QDAUYW	45.2	-0.20	1.05		45.2	-0.09	2.31		4	BU
QGTLYB	48.3	0.60	1.20		47.6	0.53	0.46		4	LC
QQWC4G	48.8	0.73	1.84		49.1	0.91	1.38		4	MK
QZNFZ3	46.7	0.18	0.98		46.9	0.35	0.33	L	4	LY
T4EBXT	48.2	0.59	2.33		47.5	0.49	0.52		4	TD
U68GVX	44.0	-0.51	1.39		43.8	-0.46	1.15		4	EN
V9MB8P	51.0	1.30	0.71	L	51.8	1.60	1.27		3	LD
V9MDWT	47.3	0.35	1.71		47.0	0.37	1.57		4	CT
VVABBV	41.5	-1.14	1.95		41.5	-1.05	1.81		4	LD
VW6UDW	51.3	1.38	1.13		52.4	1.76	1.96		4	TG
WL7FTQ	44.1	-0.48	0.99		44.9	-0.19	0.82		4	EM
WV83KN	49.4	0.89	1.00		48.5	0.75	1.24		4	EM
YGKA9L	45.6	-0.09	1.70		61.9	4.23 X	29.11	H	3	TD
ZGZKB7	40.0	-1.53	1.15		40.5	-1.33	0.59		4	TS



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

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Consensus (All Labs) Results			
Month Mean	45.95	Grand Mean	45.59
Avg SD	1.89	Avg SD Months	2.21
SD btwn Labs	3.87	SD btwn Labs	3.86
Labs Incl	37	Labs Incl	36

Key to Instrument Codes Reported by Participants

BU Buchel Digital Crush Tester EM Emerson 1200 Series IX Instron (model not specified) LD L&W Crush Tester 248 MK Mark-10 ESM303 TE TMI Monitor/Compression Tester, Model 17-60 TH TMI Monitor/Compression Tester, Model 17-76 TU TMI Universal Crush Tester (TMI K440)	CT Con-Ten EN Emerson 2200 LC L&W Crush Tester 48 LY L&W 830 TD TMI Digital Crush Tester, Model 17-09 TG TMI Digital Crush Tester, 17-76 TS TMI Digital Crush Tester, Model 17-56 XX Instrument make/model not specified by lab
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Containerboard Interlaboratory Testing Program
 Analysis 205
Bursting Strength (Mullen), 42 lb Linerboard - 42N1
 TAPPI Official Test Method T807

Report #677
February 2026

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	
2ACTNQ	116.5	120.4	117.6	118.2	118.2	0.83	8.8	1.6	117.3	0.84	8.8	2.7	12	LJ
2VDNJY	107.5	111.5	109.3	106.8	108.8	-1.13	8.4	2.1	110.7	-0.77	7.5	2.8	12	LC
36WHBM_AL	120.4	119.0	117.3	113.9 L	117.7	0.72	8.9	2.8	114.1	0.05	8.1	4.2	12	AL
438VTJ	134.3 X	132.2 X	123.7	126.5 *H	129.2	3.11 X	11.4	4.9	129.1	3.70 X	10.7	3.9	12	AX
7NX762	115.0	111.1	110.4	110.1	111.6	-0.53	6.9	2.3	110.6	-0.80	8.3	2.4	8	LZ
7TRVAR	117.1	117.5	116.0	114.3	116.2	0.42	9.4	1.4	116.0	0.52	9.2	1.3	12	LA
CECGZG	119.3	116.6	122.5	113.9	118.1	0.81	8.2	3.6	116.6	0.65	8.3	3.1	12	LA
CECGZG_AL	117.7	115.8	113.5	116.2	115.8	0.33	6.0	1.7	114.2	0.08	6.4	1.8	12	AL
DB6NEG_AL	113.0	104.7	106.0	103.4	106.7	-1.55	8.5	4.3	107.6	-1.53	9.1	3.1	12	XX
DCEP2F	113.9 L	114.0 L	113.9 L	113.9 L	113.9	-0.06	0.7	0.0 L	113.4	-0.11	1.1	0.5 L	12	LA
G6PBQ6	113.9 H	106.9	108.0	105.3	108.5	-1.18	11.9	3.8	108.2	-1.38	9.7	3.2	12	XX
HC8CWP_AL	116.7	116.1	108.7	109.9	112.8	-0.28	10.0	4.1	111.0	-0.69	17.2	4.6	12	AL
HHURAF_AL	126.8 *	117.9	120.6 H	114.9 H	120.0	1.21	15.2	5.1	119.9	1.48	13.0	4.1	12	AL
J8QVQB_AL	109.2	120.1	No DATA	118.5	115.9	0.36	9.5	5.9	117.1	0.78	8.7	4.1	10	AL
JGTD3D	113.6	116.5	118.4	118.7	116.8	0.54	9.5	2.3	115.9	0.49	10.2	2.4	11	TB
JVET6D	107.9	106.3	108.5	109.1	107.9	-1.30	7.1	1.2	108.8	-1.23	7.7	2.0	12	LC
L39DQ6	116.9	125.0 H	116.6	122.7	120.3	1.27	14.2	4.2	119.0	1.24	10.1	3.6	12	TX
LJAKE6	107.2	107.3	108.9	104.8	107.1	-1.49	8.6	1.7	108.3	-1.36	7.8	1.7	12	LZ
LMTFGX	117.3	116.7	112.8	111.2	114.5	0.06	9.6	3.0	114.9	0.25	9.4	2.9	12	LC
LTXC64_AL	124.3 *	120.8	120.6	120.8	121.6	1.54	8.2	1.8	120.4	1.58	8.1	2.4	11	AL
MDZG84	117.5	126.6 *	126.8 *	126.0	124.2	2.08 *	7.0	4.5	120.5	1.61	7.2	4.4	12	LA
MLF3D2	105.6	104.5	107.3	102.0 *	104.9	-1.94 *	7.9	2.3	104.9	-2.19 *	7.9	2.3	4	TP
NKJGAG_AL	116.3	119.1	117.3	113.2	116.5	0.47	9.6	2.5	118.8	1.20	10.0	3.0	12	AL
NM7NJX	110.3	113.5	117.3	113.5	113.6	-0.11	9.8	2.8	115.1	0.30	9.1	2.1	12	LA
PPP6C3	114.0	115.3	114.7	114.1	114.5	0.07	6.3	0.6	114.6	0.18	6.3	0.7 L	12	LJ
Q9EZ2V	118.0	120.9	109.9	113.9	115.7	0.31	7.3	4.8	117.1	0.80	7.2	4.2	12	LC
Q9EZ2V_AL	114.3	118.4	118.4	114.5	116.4	0.46	10.8	2.3	115.6	0.41	8.9	2.9	12	AL
QGTLBY	118.1	113.2	113.1	113.1	114.4	0.03	7.6	2.5	115.3	0.34	8.5	4.8	12	AH
RCEBXU	129.4 X	115.4	125.2 *	130.8 *	125.2	2.29 *	9.9	7.0 H	126.3	3.01 X	11.2	4.6	12	XX
REFCXR	124.3 *	125.3 *	124.0	123.7	124.3	2.11 *	8.7	0.7	121.6	1.87	7.7	3.2	12	LA
RPZNA6_AL	113.1	107.4	109.8	102.6	108.2	-1.24	7.1	4.4	108.7	-1.24	6.6	3.4	11	AL
RUB7JD_AL	103.8 *	110.3	108.9	115.8	109.7	-0.94	8.4	4.9	108.7	-1.24	8.1	3.4	12	AL
TEF4FE	102.9 *	112.9	111.9	113.9	110.4	-0.79	8.6	5.0	110.9	-0.71	8.1	3.2	12	XX
TZEZ3T	112.6 L	111.9 L	110.3 L	112.0 L	111.7	-0.52	3.0	1.0	110.7	-0.77	3.3	1.3	12	XX
U4CYUW	114.8	111.6	107.6	113.8	112.0	-0.47	7.9	3.2	119.0	1.24	9.6	11.5 H	12	AX



Containerboard Interlaboratory Testing Program
 Analysis 205
Bursting Strength (Mullen), 42 lb Linerboard - 42N1
 TAPPI Official Test Method T807

Report #677
February 2026

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	
URFULW_AL	113.1	113.7	112.1	114.3	113.3	-0.18	9.2	0.9	113.3	-0.13	9.2	0.9	L 4	AL
UXLQ6W	119.6	120.7	117.4	119.8	119.4	1.08	8.6	1.4	116.0	0.53	9.8	4.0	12	LC
V2KWBA_AL	112.3	106.7	110.4	109.9	109.8	-0.91	7.3	2.3	111.0	-0.69	11.0	4.4	12	AL
V94YHC	110.1	106.5	111.4	109.0	109.3	-1.03	6.7	2.1	109.6	-1.03	7.1	3.3	12	LA
V9MB8P	113.3 L	116.8	114.0	111.1	113.8	-0.08	5.8	2.4	112.0	-0.45	7.3	2.7	8	LA
V9MB8P_AL	116.7	111.6	121.6	123.1	118.2	0.84	8.7	5.2	118.6	1.15	7.9	4.1	8	AK
V9MDWT	116.0	112.5	123.0	117.0	117.1	0.61	8.9	4.4	116.9	0.74	8.8	3.0	12	XX
VMG3Q6_AL	115.0 H	115.8 H	113.8	120.6	116.3	0.44	13.6	3.0	115.5	0.40	11.0	3.1	12	XX
VVABBV	110.8	103.6	113.6	111.6	109.9	-0.89	8.6	4.4	112.3	-0.38	8.4	4.6	12	AH
WBL9T2_AL	109.5	105.6	108.8	108.4	108.1	-1.27	8.2	1.7	106.0	-1.92	8.3	2.1	12	AL
WTZKLR	111.6	117.7	113.7	117.4	115.1	0.19	9.4	3.0	115.8	0.46	8.8	3.7	12	XX
XD8ACU_AL	117.5	112.3	114.8	114.1	114.7	0.10	10.5	2.1	116.1	0.53	9.3	3.0	12	AL
XLZKLP	115.0	114.7	108.9	110.4	112.2	-0.41	7.9	3.1	112.2	-0.40	7.7	2.1	8	AH
ZRWQ66	106.7	109.3	113.7	No DATA	109.9	-0.89	6.4	3.5	111.0	-0.69	6.1	3.0	9	XX

Consensus (All Labs) Results									
Wk Mean	114.19	114.13	114.43	114.22	Month Mean	114.20	Grand Mean	113.86	
Avg SDr	8.91	9.09	8.90	8.76	Avg SD	8.84	Avg SD	8.75	
SD btwn Labs	5.06	5.68	5.34	6.22	SD btwn Labs	4.81	SD btwn Labs	4.12	
Labs Incl	47	48	48	48	SD btwn Wks	3.30	SD btwn Wks	3.52	
Labs Excl	2	1	0	0	Labs Incl	48	Labs Incl	47	
Labs not Rcvd	0	0	1	1					

Key to Instrument Codes Reported by Participants

AH	Perkins Model AH	AK	L & W Autoline 300
AL	L & W Autoline 400	AX	Perkins Mullen Tester (model not specified)
LA	L&W Bursting Strength Tester	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
TX	TMI Monitor/Burst (model not specified)	XX	Instrument make/model not specified by lab



Containerboard Interlaboratory Testing Program
 Analysis 207
Bursting Strength (Mullen), 31 Ib Linerboard - 31K1
 TAPPI Official Test Method T807

Report #677
February 2026

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	
2ACTNQ	75.4	79.8	76.9	76.2	77.1	0.72	4.9	1.9	76.5	0.59	5.7	2.0	12	LJ
2VDNJY	67.9 *	72.1	72.8	69.5	70.6	-1.48	4.2	2.3	72.9	-0.76	4.0	2.4	12	LC
36WHBM_AL	81.7 *H	76.5	76.6 H	80.0	78.7	1.26	8.7	2.6	75.3	0.14	7.5	3.6	12	AL
438VTJ	79.7	83.1 *	80.5	83.3 *	81.7	2.24 *	6.3	1.8	81.5	2.46 *	7.5	2.7	12	AX
7NX762	71.1	69.1	73.3	69.3	70.7	-1.43	6.3	2.0	70.7	-1.57	6.3	2.0	4	LZ
7TRVAR	75.9	79.3	76.0	73.8	76.2	0.42	5.9	2.3	75.1	0.08	6.3	2.1	12	LA
CECGZG	80.2	79.0	77.6	77.7	78.6	1.22	4.4	1.2	78.2	1.22	5.2	1.8	12	LA
CECGZG_AL	75.8	73.9	73.7	72.7	74.0	-0.32	4.6	1.3	74.5	-0.17	4.1	1.6	12	AL
DB6NEG_AL	71.6	69.3	70.4	73.0 L	71.1	-1.31	4.3	1.6	70.9	-1.51	5.2	1.4	12	XX
DCEP2F	76.4 L	76.4 L	76.5 L	76.1 L	76.4	0.46	1.4	0.2 L	76.1	0.41	1.3	0.3 L	12	LA
G6PBQ6	70.6	72.5	73.8	73.1	72.5	-0.83	5.4	1.4	72.4	-0.95	5.7	1.2	12	XX
HC8CWP_AL	75.0	76.0	72.2	77.5	75.2	0.07	5.2	2.2	75.1	0.05	5.4	1.7	12	AL
HHURAF_AL	73.7	78.3	75.2	77.5	76.2	0.40	5.9	2.1	78.2	1.20	6.0	1.9	12	XX
J8QVQB_AL	72.7	73.8	No DATA	74.8	73.8	-0.41	4.9	1.1	76.0	0.41	4.2	2.8	7	AL
JGTD3D	77.1	74.1	73.8	77.2	75.5	0.19	5.8	1.8	76.3	0.51	6.1	1.7	12	TB
JVET6D	74.5	72.3	75.0	71.4	73.3	-0.56	4.7	1.7	72.8	-0.81	4.8	1.7	12	LA
L39DQ6	81.5	81.9 *	78.7	85.0 X	81.8	2.28 *	5.5	2.6	80.6	2.13 *	4.6	2.0	12	XX
LJAKE6	68.8	71.5	71.9	70.0	70.6	-1.49	5.1	1.4	71.1	-1.45	5.6	1.8	12	LA
LMTFGX	73.9	72.2	70.6	71.6	72.1	-0.97	5.5	1.4	74.4	-0.19	6.2	2.1	12	LC
LTXC64_AL	78.1 L	79.2	79.9	79.1	79.1	1.37	3.9	0.7	78.3	1.26	4.6	1.3	12	AL
MDZG84	75.8	80.1	83.8 X	83.7 *	80.9	1.97 *	3.8	3.8	78.0	1.13	4.4	3.0	12	LA
MLF3D2	72.5	77.4	75.8	73.8	74.9	-0.04	5.2	2.1	75.7	0.28	4.8	1.9	8	TP
NKJGAG_AL	76.3	73.7	75.1	74.6	74.9	-0.02	3.9	1.1	74.6	-0.14	6.2	2.4	12	AL
NM7NJX	82.2 *	74.8 H	78.2	75.1 H	77.6	0.87	7.3	3.5	76.4	0.56	6.5	2.2	12	LA
PPP6C3	73.7	72.5	74.4 L	72.6	73.3	-0.56	4.4	0.9	73.8	-0.41	4.0	1.3	8	LJ
Q9EZ2V	73.4	75.2	76.3	73.5	74.6	-0.12	5.8	1.4	75.1	0.05	6.1	3.1	12	LC
Q9EZ2V_AL	75.3	76.7	77.2	76.0	76.3	0.44	6.2	0.8	76.0	0.40	5.3	1.8	12	XX
QGTLBY	73.5	74.2	73.3	74.6	73.9	-0.36	6.0	0.6	74.1	-0.29	6.0	0.9	12	AH
RCEBXU	79.6 H	77.9	78.2	78.3 H	78.5	1.18	8.7	0.8	78.5	1.32	7.8	1.7	12	XX
REFCXR	79.3	77.3	79.4	78.8	78.7	1.25	6.6	1.0	79.4	1.67	5.3	1.0	8	LA
RPZNA6_AL	78.4	77.0	81.8 *	75.2	78.1	1.05	3.8	2.8	78.0	1.13	3.7	1.7	11	AL
RUB7JD_AL	72.3	69.0	70.2	68.5	70.0	-1.67	5.7	1.7	71.9	-1.13	5.1	2.1	12	AL
TEF4FE	69.0	74.5	73.4	69.7	71.6	-1.12	5.7	2.7	70.6	-1.61	6.5	2.1	12	XX
TZEZ3T	77.0	76.6 L	78.8	75.4	76.9	0.66	2.5	1.4	76.9	0.72	2.5	0.9	12	XX
U4CYUW	74.8	72.1	71.6	73.5	73.0	-0.66	4.7	1.4	73.0	-0.73	6.4	8.3 H	12	AX



Containerboard Interlaboratory Testing Program
 Analysis 207
Bursting Strength (Mullen), 31 lb Linerboard - 31K1
 TAPPI Official Test Method T807

Report #677
February 2026

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	
URFULW_AL	75.2	75.8	74.1	73.9	74.8	-0.07	4.9	0.9	75.3	0.14	4.8	1.0	8	AL
UXLQ6W	69.6	74.3	77.8	74.8	74.1	-0.28	6.1	3.4	72.7	-0.83	6.7	3.2	12	LC
V2KWBA_AL	74.2	71.4	71.4	73.6	72.6	-0.78	5.7	1.5	71.1	-1.42	6.2	2.2	12	AL
V94YHC	70.8	69.5	70.1	68.9	69.8	-1.73	5.2	0.8	69.5	-2.01 *	5.5	2.1	12	LA
V9MB8P	74.3	75.7 L	74.4	72.9	74.3	-0.22	3.9	1.1	74.7	-0.10	5.6	1.3	8	LC
V9MB8P_AL	78.4	76.6	78.9	74.2 H	77.0	0.68	6.2	2.1	75.5	0.20	6.4	2.6	8	AK
V9MDWT	74.5	77.0	75.0	78.0	76.1	0.39	7.3	1.7	77.2	0.85	7.1	2.0	12	XX
VMG3Q6_AL	73.2	76.6	74.7	72.5 H	74.2	-0.25	7.0	1.8	74.1	-0.32	6.7	2.6	12	XX
VVABBV	73.9	71.4	74.6	68.9	72.2	-0.93	6.9	2.6	73.0	-0.74	5.7	2.9	12	AH
WBL9T2_AL	69.8	75.0	74.6	72.9	73.1	-0.64	4.6	2.4	71.9	-1.14	5.7	2.3	12	AL
WTZKLR	74.1	78.7	74.3	72.9	75.0	0.01	5.4	2.5	73.8	-0.43	5.5	2.6	12	XX
XD8ACU_AL	76.5	71.2	74.6	77.0	74.8	-0.06	4.6	2.6	74.0	-0.36	6.2	3.0	12	AL
XLZKLP	68.7	73.6	71.4	73.1	71.7	-1.11	7.0	2.2	74.2	-0.28	6.0	3.1	8	AH
ZRWQ66	77.5	73.7	76.3	NO DATA	75.8	0.28	4.1	2.0	76.1	0.45	4.3	1.7	5	XX

Consensus (All Labs) Results									
Wk Mean	74.80	75.09	75.13	74.48	Month Mean	74.97	Grand Mean	74.94	
Avg SDr	6.04	5.17	5.29	5.59	Avg SD	5.52	Avg SD	5.62	
SD btwn Labs	3.54	3.31	2.87	3.46	SD btwn Labs	2.98	SD btwn Labs	2.69	
Labs Incl	49	49	47	47	SD btwn Wks	1.94	SD btwn Wks	2.42	
Labs Excl	0	0	1	1	Labs Incl	49	Labs Incl	49	
Labs not Rcvd	0	0	1	1					

Key to Instrument Codes Reported by Participants

AH	Perkins Model AH	AK	L & W Autoline 300
AL	L & W Autoline 400	AX	Perkins Mullen Tester (model not specified)
LA	L&W Bursting Strength Tester	LC	L&W Autoline (207 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 215
Ring Crush, 42 lb Linerboard - 42N1
 TAPPI Official Test Method T822

Report #677
February 2026

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	
2VDNJY	92.5	92.2	97.6	95.3	94.4	-1.02	3.6	2.6	94.5	-1.02	4.2	3.5	12	LD
36WHBM	95.7	94.9	97.2	96.0	96.0	-0.63	2.3	1.0	95.5	-0.72	3.1	1.1	12	LD
42VUBQ	93.8	94.5	92.7	93.5	93.6	-1.20	2.2	0.7	92.3	-1.69	2.9	1.8	12	LD
7NX762	97.0	98.1	96.4	96.4	97.0	-0.39	3.6	0.8	97.8	-0.01	4.2	6.2	12	XX
8KCAZN	100.4	101.2	100.8	103.2 L	101.4	0.67	1.7	1.2	101.3	1.09	2.3	1.1	12	LD
CECGZG	100.6	99.2	98.6	100.6	99.7	0.28	3.7	1.0	98.4	0.17	3.5	1.6	12	LD
DB6NEG	96.3	97.2	97.1	96.7	96.8	-0.43	2.6	0.4 L	96.1	-0.52	2.5	0.7 L	12	LD
DCEP2F	95.7 L	95.9 L	95.9 L	96.0 L	95.9	-0.65	0.5	0.1 L	95.9	-0.60	0.6	0.1 L	12	TU
E46MFE	96.4	96.6	96.4	96.9	96.6	-0.49	1.7	0.3 L	95.8	-0.61	1.7	0.6 L	12	MB
G6PBQ6	106.8 *	106.3	109.4 *	106.5 H	107.3	2.09 *	4.7	1.4	102.7	1.50	4.1	3.6	12	XX
HHURAF	91.6 H	76.2 XH	105.5	106.0	94.8	-0.91	6.3	14.1 H	94.0	-1.18	5.7	12.5 H	12	LZ
J8QVQB	96.2	97.0	97.9	96.9	97.0	-0.38	3.9	0.7	95.9	-0.58	3.9	1.6	12	LC
JGTD3D	90.5	93.6	92.7	96.5	93.3	-1.27	3.1	2.5	94.4	-1.04	3.7	2.7	12	LD
JVET6D	100.0	96.8	97.2	95.2	97.3	-0.32	2.6	2.0	97.0	-0.25	2.9	1.4	12	LD
KR9PV2	96.1	96.4	95.5	94.3	95.6	-0.72	2.9	0.9	94.8	-0.92	3.6	2.0	12	LC
LBFEK4	105.6	109.7 *	105.1	108.0 *	107.1	2.05 *	4.2	2.1	97.4	-0.13	7.5	12.8 H	12	MB
LJAKE6	97.1 L	97.6	97.2	98.4	97.6	-0.25	2.5	0.6	97.7	-0.02	2.7	0.7 L	12	LD
LMTFGX	102.3	101.8	102.4	101.7	102.0	0.83	3.3	0.3 L	101.9	1.28	3.4	1.1	12	MB
MDZG84	91.6	89.8 *	91.5	91.0	91.0	-1.84	3.0	0.8	90.6	-2.22 *	3.6	2.0	12	LC
MLF3D2	98.1	104.5	105.5	98.6	101.7	0.75	3.0	3.9	100.6	0.87	3.0	3.1	8	TX
NM7NJX	96.5	97.6	97.9	97.6 L	97.4	-0.29	2.3	0.6	97.1	-0.22	2.9	1.5	12	LD
PPP6C3	98.6	99.4	98.5	97.6	98.5	-0.02	2.6	0.7	97.9	0.02	2.6	0.9 L	12	LD
Q9EZ2V	116.1 X	105.2	105.7	107.6 *	108.7	2.42 *	3.8	5.1	105.5	2.39 *	3.6	5.6	12	LD
QGTLBY	98.3	99.0	96.5	96.8	97.6	-0.23	2.7	1.2	99.0	0.37	2.6	1.4	12	LC
QZNFZ3	98.6	99.8	99.9	98.5	99.2	0.15	2.9	0.7	100.0	0.68	2.7	1.4	12	LG
T6NDNX	106.2 *	108.3 *	110.6 *	109.8 *	108.7	2.44 *	3.2	1.9	103.9	1.90	3.6	3.8	12	TU
TZEZ3T	81.0 XH	81.2 X	79.9 X	76.3 X	79.6	-4.58 X	4.8	2.3	82.3	-4.79 X	4.5	2.7	12	MZ
U4CYUW	100.1	101.0	98.8	97.7	99.4	0.20	4.1	1.4	100.8	0.93	4.5	2.2	12	LD
U68GVX	94.4	94.0	93.5	95.9	94.4	-1.01	3.4	1.0	94.0	-1.19	3.0	1.5	12	LC
URFULW	67.1 X	66.1 X	66.3 X	66.0 X	66.4	-7.77 X	4.2	0.5 L	66.8	-9.61 X	6.4	0.7 L	12	LD
UXLQ6W	104.7	97.2	101.2	98.1	100.3	0.41	3.6	3.4	98.9	0.33	3.0	2.3	12	LD
VW6UDW	101.2	99.6	102.4	101.2	101.1	0.60	2.9	1.1	101.9	1.28	2.4	2.8	12	TH
WBL9T2	99.1	99.6	99.8	98.9	99.3	0.18	2.8	0.4 L	99.0	0.35	2.5	0.9 L	12	LD
WNABCU	100.0	98.3	99.8	100.2	99.6	0.23	3.8	0.9	98.0	0.05	3.9	2.4	12	EM
WTZKLR	104.4	103.9	104.9 H	99.4	103.2	1.10	5.1	2.5	102.6	1.48	5.2	2.6	12	LD



Containerboard Interlaboratory Testing Program
 Analysis 215
Ring Crush, 42 lb Linerboard - 42N1
 TAPPI Official Test Method T822

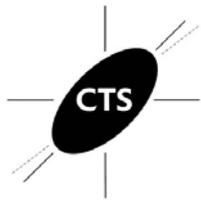
Report #677
February 2026

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	
WV83KN	96.8	95.9	95.2	96.6	96.1	-0.60	2.6	0.7	96.6	-0.38	3.0	0.6	L 12	EM
XZGF3L	97.6 L	96.9 L	96.8 L	96.8	97.0	-0.38	1.2	0.4 L	97.0	-0.26	1.4	1.3	12	MZ
YQ7EGL	97.3 L	97.8 L	96.8 L	96.8 L	97.2	-0.33	1.2	0.5 L	97.2	-0.18	1.2	1.0	L 12	XX
Z8TCYR	93.5	96.6	96.1	95.6	95.4	-0.76	3.6	1.3	96.1	-0.52	3.5	1.5	12	LD
ZRWQ66	97.9 H	99.6 H	95.0 H	No DATA	97.5	-0.27	6.2	2.3	96.4	-0.45	5.9	1.8	9	TU

Consensus (All Labs) Results														
Wk Mean	98.09	98.73	99.00	98.72	Month Mean	98.60	Grand Mean	97.80						
Avg SDr	3.54	3.10	3.30	3.10	Avg SD	3.36	Avg SD	3.57						
SD btwn Labs	4.05	4.25	4.51	4.24	SD btwn Labs	4.15	SD btwn Labs	3.23						
Labs Incd	37	37	38	37	SD btwn Wks	2.85	SD btwn Wks	3.70						
Labs Excl'd	3	3	2	2	Labs Incd	38	Labs Incd	38						
Labs not Rcv'd	0	0	0	1										

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
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 217
Ring Crush, 31 lb Linerboard - 31K1
 TAPPI Official Test Method T822

Report #677
February 2026

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	
2VDNJY	70.4	75.8	73.7	72.8	73.2	-0.41	2.9	2.2	72.1	-0.73	3.5	2.1	12	LD
36WHBM	72.7	74.3	76.0	76.9	75.0	0.42	3.1	1.9	73.8	-0.02	3.1	1.5	12	LD
42VUBQ	74.3	73.5	72.1	74.6	73.6	-0.20	2.2	1.1	72.7	-0.46	2.6	2.3	12	LD
7NX762	73.7	73.2	74.5	73.5	73.7	-0.17	2.3	0.6	70.0	-1.57	5.1	3.1	12	LZ
8KCAZN	78.7 *	77.2	80.3	80.7 *	79.2	2.41 *	2.1	1.6	79.5	2.36 *	2.1	1.7	12	LD
CECGZG	76.6	78.3	76.7	75.0	76.6	1.20	2.9	1.4	74.4	0.25	2.8	2.0	12	LD
DB6NEG	72.8	74.6	74.7	74.4	74.1	0.03	2.0	0.9	73.4	-0.17	1.9	0.8	12	LD
DCEP2F	73.9 L	74.2 L	74.2 L	73.9 L	74.0	0.00	0.5	0.2 L	74.1	0.11	0.5	0.2 L	12	TU
E46MFE	72.4	72.6	72.6	72.0	72.4	-0.76	1.6	0.3 L	73.0	-0.34	1.6	0.9	12	MB
G6PBQ6	78.7 *H	78.8	77.0	75.8	77.6	1.64	4.0	1.4	75.9	0.86	3.8	1.6	12	XX
HHURAF	81.6 X	55.7 XH	81.0 *	77.4	73.9	-0.06	5.8	12.3 H	72.9	-0.39	5.5	9.5 H	12	LZ
J8QVQB	71.9	73.2	70.2	73.7	72.3	-0.84	3.4	1.6	72.6	-0.52	3.4	1.5	12	LC
JGTD3D	74.2 L	70.4	66.6 *	72.1 H	70.8	-1.52	3.3	3.2	72.8	-0.44	3.6	2.7	12	LC
JVET6D	73.4	74.2	73.0	NO DATA	73.5	-0.25	2.7	0.6	73.8	0.00	2.8	1.0	10	LD
KR9PV2	72.5	71.1	70.9	71.2	71.4	-1.24	2.0	0.7	72.4	-0.57	2.6	1.0	12	LC
LBFEK4	76.1 H	74.9 H	80.2	79.6 *	77.7	1.70	4.4	2.6	66.0	-3.24 X	8.8	9.9 H	12	MB
LJAKE6	74.0	74.3	74.8	72.2	73.8	-0.12	3.6	1.1	75.3	0.60	2.8	1.7	12	LD
LMTFGX	77.4	79.1 *	79.8	77.5	78.5	2.05 *	3.7	1.2	77.6	1.55	3.5	1.1	12	MB
MDZG84	72.6	69.0 *	68.7	73.1	70.9	-1.49	3.0	2.3	69.9	-1.63	3.1	2.4	12	LC
MLF3D2	74.9	75.3	73.2	73.4	74.2	0.07	2.5	1.0	73.8	-0.02	2.5	0.9	8	TH
NM7NJX	70.9	73.2	74.0	73.0	72.8	-0.59	2.9	1.3	73.6	-0.09	2.5	1.3	12	LD
PPP6C3	77.2	76.3	75.8	74.8	76.0	0.91	3.3	1.0	76.0	0.89	3.0	0.8	8	LD
Q9EZ2V	83.7 X	77.2	80.3	81.2 *	80.6	3.05 X	2.6	2.7	78.1	1.75	2.4	3.4	12	LD
QGTLBY	75.7 L	73.3	74.5	74.2	74.4	0.16	2.2	1.0	75.0	0.51	2.8	1.0	12	LC
QZNFZ3	75.8	76.9	76.5	76.1	76.3	1.06	2.4	0.5	75.4	0.63	2.4	1.6	12	LG
T6NDNX	79.3 *	85.2 X	84.8 X	84.0 X	83.3	4.33 X	4.2	2.7	80.2	2.65 *	3.8	3.0	12	TU
TZEZ3T	66.0 XH	60.6 XH	60.6 XH	60.2 X	61.9	-5.68 X	5.9	2.8	65.3	-3.51 X	6.2	3.1	12	MZ
U4CYUW	74.4	73.8	75.4 H	75.3	74.7	0.31	3.8	0.8	71.4	-1.01	5.1	6.6 H	12	LD
U68GVX	73.0	73.2	73.4	73.2	73.2	-0.39	3.1	0.2 L	72.9	-0.36	2.7	0.6 L	12	LC
URFULW	52.0 X	51.9 XH	52.9 X	51.3 X	52.0	-10.27 X	4.5	0.6	51.7	-9.16 X	7.7	0.8	12	LD
UXLQ6W	71.5 H	71.2	73.2	72.5	72.1	-0.91	3.7	0.9	73.3	-0.20	2.8	1.5	12	LD
VW6UDW	74.0	75.2	74.1	73.7	74.2	0.08	2.0	0.7	74.1	0.10	2.4	1.5	12	TH
WBL9T2	75.9	75.3	74.4	74.0	74.9	0.38	2.7	0.9	75.8	0.81	2.7	1.4	12	LD
WNABCU	69.4 *	69.1 *	71.6	72.3	70.6	-1.62	3.8	1.6	68.7	-2.11 *	3.6	3.1	12	EM
WTZKLR	73.5	74.0	70.6	72.0 H	72.5	-0.71	4.5	1.5	71.3	-1.06	4.2	2.9	12	LD



Containerboard Interlaboratory Testing Program
 Analysis 217
Ring Crush, 31 lb Linerboard - 31K1
 TAPPI Official Test Method T822

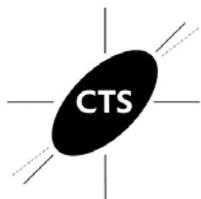
Report #677
February 2026

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
WV83KN	72.6	74.2	72.4	72.7	73.0	-0.51	2.7	0.8	74.3	0.22	3.0	1.4	12	EM
XZGF3L	75.6 L	75.7	75.1 L	76.7 L	75.8	0.81	1.1	0.7	73.5	-0.14	1.1	3.3	12	MZ
YQ7EGL	75.2 L	74.8 L	74.5 L	76.4 L	75.2	0.55	0.9	0.8	73.2	-0.26	1.1	2.9	12	MZ
Z8TCYR	72.2	72.9	72.7	72.6	72.6	-0.68	2.5	0.3 L	73.0	-0.32	2.6	1.7	12	LD
ZRWQ66	73.2	70.5	70.1	No DATA	71.2	-1.31	4.1	1.7	71.8	-0.84	4.0	1.6	5	TU

Consensus (All Labs) Results														
Wk Mean	74.17	74.19	74.29	74.58	Month Mean	74.05	Grand Mean	73.82						
Avg SDr	3.24	2.77	2.82	2.93	Avg SD	3.07	Avg SD	3.13						
SD btwn Labs	2.34	2.45	3.27	2.49	SD btwn Labs	2.15	SD btwn Labs	2.42						
Labs Incl	36	36	37	35	SD btwn Wks	2.44	SD btwn Wks	2.69						
Labs Excl	4	4	3	3	Labs Incl	36	Labs Incl	37						
Labs not Rcvd	0	0	0	2										

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
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 223

Report #677

February 2026

STFI, 42 lb Linerboard - 42N1

TAPPI Official Test Method T826

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	
2ACTNQ	23.7	23.9	24.5 H	27.2 H	24.8	0.12	2.6	1.6 H	24.2	-0.39	2.4	1.2	12	LH
2VDNJY	23.4 H	22.7 *	23.5	22.5	23.0	-1.41	2.5	0.5	23.9	-0.67	2.3	0.9	12	LA
2ZQNGQ	24.6	25.2	24.0	24.1	24.5	-0.18	1.8	0.5	25.1	0.40	1.8	0.8	12	XX
39D3YM	24.0	24.3	24.8	23.9	24.3	-0.37	1.9	0.4	24.1	-0.46	2.0	0.8	12	LH
42VUBQ	25.5	25.6	25.5	23.8 H	25.1	0.33	2.2	0.9	33.7	8.32 X	2.1	6.9 H	12	LA
438VTJ	26.3 L	25.3 L	25.9 L	25.5 L	25.7	0.89	0.0	0.4	25.0	0.31	0.0	0.7	12	LH
6BGJ7H	22.7 L	No DATA	No DATA	No DATA	22.7	-1.67	0.7	0.0	22.6	-1.88	0.6	0.9	3	LH
7NX762	23.6 H	25.3	26.2 H	24.9	25.0	0.25	2.6	1.1	26.0	1.23	2.3	1.3	12	LZ
7TRVAR	25.6	25.5	24.6	24.5	25.0	0.29	1.7	0.6	24.8	0.10	1.7	0.6	12	LY
8KCAZN	26.0	27.0 *	25.8	26.7	26.4	1.40	1.6	0.6	26.6	1.78	1.7	0.8	12	LH
A3LFFW	24.2	23.0 H	23.2	24.6	23.8	-0.79	2.8	0.8	23.3	-1.22	2.6	0.7	12	LH
CECGZG_AL	No DATA	No DATA	23.8	24.4	24.1	-0.50	1.8	0.5	24.1	-0.50	1.8	0.5	2	AL
DB6NEG_AL	24.1	24.0	24.3	23.6	24.0	-0.60	1.8	0.3	24.0	-0.56	1.6	0.4	12	XX
DCEP2F	25.2	25.1	25.1	25.2	25.2	0.38	1.2	0.1 L	25.2	0.53	1.6	0.1 L	12	XX
FK8KD4	25.7	25.4	26.2	26.5	25.9	1.05	1.9	0.5	25.9	1.18	1.9	0.6	12	LA
HC8CWP_AL	24.2	25.7 H	26.0	26.0	25.5	0.66	2.2	0.9	25.1	0.40	2.1	0.7	12	AL
HHURAF_AL	24.0	25.2	23.2 L	23.4	24.0	-0.62	1.6	0.9	23.7	-0.90	1.6	0.7	12	AL
J8QVQB	23.7	25.1	No DATA	23.7	24.2	-0.43	2.3	0.8	24.8	0.11	1.9	0.9	10	LU
JGTD3D	26.1	25.8	24.6	25.4 H	25.5	0.65	2.5	0.7	25.4	0.69	2.4	0.5	12	LW
JGW9YK	24.4	24.6	24.2	24.6	24.5	-0.20	1.7	0.2	25.0	0.29	1.9	0.6	12	LU
JVET6D	24.3	24.9	24.9	24.2	24.6	-0.09	2.0	0.4	24.1	-0.49	1.7	0.7	12	LA
LBF EK4	25.7	25.2 L	26.3	23.9	25.3	0.48	1.3	1.0	25.4	0.73	1.8	0.9	12	LA
LJAKE6	25.8	24.5	25.8	25.6	25.4	0.62	1.7	0.7	24.4	-0.24	1.8	0.9	12	LY
LMTFGX	24.3	26.0	25.4	26.1	25.5	0.65	1.9	0.8	24.9	0.23	1.8	0.8	12	LA
LTXC64_AL	25.4	23.6 H	24.3	24.7	24.5	-0.15	2.1	0.7	24.7	0.08	1.8	0.6	11	AL
MDZG84	24.5 H	25.1	25.1	25.2	25.0	0.24	1.8	0.3	24.7	0.05	1.7	0.4	12	LA
NKJGAG_AL	28.0 *	26.4	28.2 *	27.6 *	27.5	2.39 *	2.1	0.8	26.5	1.67	2.0	1.3	12	AL
NM7NJX	23.5	23.4	23.4	22.9	23.3	-1.20	1.8	0.3	23.3	-1.19	1.8	0.3	12	LY
P47PKG	24.8 L	24.9	24.6	25.1	24.8	0.11	1.3	0.2	25.1	0.46	1.4	0.3	12	LH
Q9EZ2V	26.2	23.7	24.7	25.4	25.0	0.27	1.8	1.1	24.9	0.27	1.9	1.6	12	LZ
Q9EZ2V_AL	48.2 XL	45.8 XL	43.6 XL	46.4 XL	46.0	17.89 X	0.0	1.9 H	46.0	19.57 X	0.0	2.4 H	12	AL
QGTLBY	23.1	24.4	24.4	24.0	24.0	-0.61	1.9	0.6	24.0	-0.61	1.9	0.5	12	LU
QZNFZ3	23.9	25.8	25.5	25.3	25.1	0.35	2.2	0.8	25.4	0.70	2.0	0.6	12	BK
RCEBXU	24.1	24.2	25.2	25.2	24.7	-0.02	1.8	0.6	24.4	-0.22	2.3	0.7	12	XX
REFCXR	26.7	25.8	27.4 *	27.8 *	26.9	1.87	1.6	0.9	25.8	1.08	1.5	1.5	12	LA



Containerboard Interlaboratory Testing Program
 Analysis 223
STFI, 42 lb Linerboard - 42N1
 TAPPI Official Test Method T826

Report #677
February 2026

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	
RPZNA6	NO DATA	24.8 L	24.1	24.9	24.6	-0.09	1.5	0.5	24.9	0.24	1.7	1.2	8	LU
RUB7JD_AL	25.5	26.5 L	25.5	25.7	25.8	0.93	1.2	0.4	25.1	0.39	1.4	0.7	12	AL
T6NDNX	25.9	25.5	25.2	24.8	25.4	0.55	2.2	0.5	25.1	0.42	2.1	0.8	12	LA
TEF4FE	24.2	24.9	24.5	24.0	24.4	-0.25	1.7	0.4	24.9	0.27	2.0	0.5	12	LH
TZEZ3T	27.1	25.9	24.1 H	24.5	25.4	0.59	2.5	1.3	25.5	0.79	2.3	0.9	12	XX
U68GVX	22.7	23.3	22.5	22.6	22.8	-1.60	1.7	0.4	22.4	-2.02 *	1.7	0.5	12	LY
URFULW	23.5	23.8	24.0	23.4	23.7	-0.87	1.9	0.3	23.5	-1.07	1.8	0.5	12	LY
URFULW_AL	24.1	23.9	23.7	24.1	24.0	-0.62	1.9	0.2	24.2	-0.39	2.2	0.7	12	AL
UXLQ6W	25.0	24.8	25.4	24.4	24.9	0.17	2.0	0.4	25.0	0.36	1.9	0.7	12	LA
V2KWBA_AL	30.6 X	30.0 X	29.1 X	31.0 X	30.1	4.56 X	2.3	0.8	30.0	4.89 X	2.3	0.8	12	AL
V94YHC	25.5	24.4	24.3	24.0	24.6	-0.11	2.1	0.6	25.3	0.58	2.1	0.9	12	LH
V9MB8P_AL	21.0 *	22.9	23.9	24.8	23.2	-1.30	1.5	1.6 H	23.9	-0.70	1.6	1.6	8	AK
VMG3Q6_AL	27.5 *L	27.1 *L	26.2	26.1 L	26.7	1.70	0.9	0.7	26.1	1.29	1.6	1.2	12	XX
VPMKPZ	23.7	23.5	22.7 L	23.8	23.4	-1.06	1.8	0.5	23.4	-1.17	1.6	0.5	9	LW
WBL9T2_AL	25.0	24.7	24.2	23.1	24.3	-0.36	1.4	0.8	24.3	-0.32	1.5	0.8	12	AL
WL7FTQ	26.3	26.7	27.0	26.7	26.7	1.67	1.9	0.3	26.7	1.86	1.9	0.3	4	TT
XD8ACU_AL	25.4	25.9	25.6	26.5	25.8	0.97	1.9	0.5	26.0	1.25	1.9	0.9	12	AL
XZGF3L	22.3 L	20.3 XL	21.6 *L	22.5 L	21.7	-2.53 *	0.3	1.0	21.8	-2.60 *	0.7	0.8	12	XX
YQ7EGL	22.9 L	20.4 XL	21.7 *L	21.9 *L	21.7	-2.48 *	0.5	1.0	21.9	-2.55 *	0.7	0.7	12	LZ
ZRWQ66	25.8	24.6	25.7	NO DATA	25.4	0.56	1.6	0.7	25.2	0.46	1.8	0.5	9	TT

Consensus (All Labs) Results									
Wk Mean	24.72	24.89	24.76	24.73	Month Mean	24.69	Grand Mean	24.65	
Avg SDr	1.87	2.06	1.77	1.84	Avg SD	1.86	Avg SD	1.85	
SD btwn Labs	1.38	1.06	1.30	1.33	SD btwn Labs	1.19	SD btwn Labs	1.09	
Labs Incl	51	49	51	51	SD btwn Wks	0.72	SD btwn Wks	0.82	
Labs Excl	2	4	2	2	Labs Incl	53	Labs Incl	52	
Labs not Rcvd	2	2	2	2					



Containerboard Interlaboratory Testing Program
Analysis 223
STFI, 42 lb Linerboard - 42N1
TAPPI Official Test Method T826

Report #677
February 2026

Key to Instrument Codes Reported by Participants

AK	L & W Autoline 300	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 225
STFI, 31 lb Linerboard - 31K1
 TAPPI Official Test Method T826

Report #677
February 2026

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	
2ACTNQ	20.3 H	19.8	19.9	21.6	20.4	-0.22	2.7	0.8	20.3	-0.39	2.1	0.6	12	LH
2VDNJY	20.6	21.2 H	20.6	19.5	20.5	-0.16	2.0	0.7	20.2	-0.55	1.7	0.6	12	LA
2ZQNGQ	20.3	21.1	21.3	20.1 L	20.7	0.13	1.1	0.6	20.3	-0.32	1.5	0.8	12	XX
39D3YM	19.8	20.3	19.9	19.8	19.9	-0.77	1.3	0.3	20.2	-0.44	1.3	0.4	8	LH
42VUBQ	19.4	19.6 L	19.5	19.5	19.5	-1.33	1.2	0.1 L	27.0	8.13 X	1.4	6.2 H	12	LA
438VTJ	20.9 L	22.9 *L	21.5 L	21.4 L	21.7	1.31	0.0	0.9	21.0	0.56	0.0	0.7	12	LH
6BGJ7H	18.4 X	No DATA	No DATA	No DATA	18.4	-2.61 *	1.0	0.0	19.2	-1.73	0.8	0.6	6	LH
7NX762	19.7	20.3	20.6	20.4 H	20.2	-0.42	1.6	0.4	20.6	0.01	1.2	0.5	12	XX
7TRVAR	19.7	21.5	20.7	21.0	20.7	0.17	1.5	0.7	21.0	0.49	1.2	0.6	12	LU
8KCAZN	21.1	21.4	21.4	21.1	21.3	0.79	1.3	0.2	21.3	0.93	1.4	0.4	12	LH
A3LFFW	20.7	20.7	20.2	18.6 *	20.0	-0.66	1.6	1.0	19.8	-1.02	2.0	0.8	12	LH
CECGZG_AL	No DATA	No DATA	20.0	20.6	20.3	-0.30	1.4	0.4	20.6	-0.01	1.3	0.6	6	AL
DB6NEG_AL	20.0	20.0	19.9	20.0	20.0	-0.72	1.3	0.1 L	20.0	-0.76	1.2	0.4	12	XX
DCEP2F	20.4	20.3	20.4	20.4	20.4	-0.26	1.0	0.0 L	20.3	-0.38	1.1	0.2 L	12	XX
FK8KD4	21.0	20.9	21.4	20.8	21.0	0.48	1.4	0.2	15.2	-6.81 X	1.1	8.5 H	12	XX
HC8CWP_AL	22.4 *	21.4 H	21.7 H	22.0	21.9	1.52	1.9	0.4	21.6	1.27	1.6	0.7	12	AL
HHURAF_AL	20.2	20.0 L	20.7	20.0 L	20.2	-0.47	0.9	0.3	20.2	-0.52	1.1	0.6	12	XX
J8QVQB	19.7	21.9	No DATA	20.5 L	20.7	0.09	1.3	1.1	20.5	-0.08	1.2	0.7	8	LU
JGTD3D	21.6	21.6	21.0	21.4	21.4	0.95	1.5	0.3	21.5	1.12	1.6	0.7	12	LW
JGW9YK	20.7	21.0	20.6	20.9	20.8	0.24	1.4	0.2	20.7	0.11	1.4	0.7	12	LU
JVET6D	19.8	20.4	19.9	19.8	20.0	-0.71	1.4	0.3	20.1	-0.57	1.2	0.9	12	LW
LBFEK4	20.8	21.0	20.1	20.7	20.7	0.07	1.6	0.4	20.2	-0.49	1.6	0.6	12	LA
LJAKE6	20.8	20.4	20.9	20.4	20.6	0.05	1.4	0.3	20.4	-0.31	1.3	0.5	12	LY
LMTFGX	21.2	22.1	21.1	20.7	21.3	0.80	1.7	0.6	22.7	2.65 *	1.6	2.6 H	12	LA
LTXC64_AL	20.8 L	20.0	20.4	20.6	20.4	-0.21	1.4	0.3	20.2	-0.50	1.3	0.5	12	XX
MDZG84	20.9 L	21.4	21.4	21.5	21.3	0.84	1.3	0.3	21.0	0.55	1.4	0.5	12	LA
NKJGAG_AL	23.4 X	23.4 *	23.9 X	23.4 X	23.5	3.47 X	1.8	0.2	23.3	3.39 X	1.8	0.5	12	AL
NM7NJX	19.8 L	19.7	20.6	19.8 L	20.0	-0.73	1.0	0.4	19.8	-1.05	1.3	0.4	12	LY
P47PKG	21.1	21.1	21.1	20.5	21.0	0.43	1.2	0.3	20.8	0.21	1.2	0.4	12	LH
Q9EZ2V	22.8 X	20.4	20.9	21.8	21.5	1.03	1.4	1.0	20.9	0.39	1.5	1.7 H	12	LZ
Q9EZ2V_AL	42.2 XL	36.9 XL	38.0 XL	35.3 XL	38.1	20.81 X	0.0	3.0 H	35.9	19.49 X	0.0	2.8 H	12	AL
QGTLBY	20.2	20.1	20.8	20.1	20.3	-0.33	1.4	0.4	20.3	-0.40	1.4	0.3	12	LU
QZNFZ3	20.6	20.7	20.0	20.3	20.4	-0.25	1.3	0.3	20.3	-0.33	1.3	0.6	12	LW
RCEBXU	19.9	19.4	19.3	19.4	19.5	-1.30	1.6	0.3	19.8	-1.03	1.6	0.5	12	XX
REFCXR	20.0	21.1	20.7	20.9	20.7	0.13	1.3	0.5	20.4	-0.21	1.2	0.5	8	LA



Containerboard Interlaboratory Testing Program
Analysis 225
STFI, 31 lb Linerboard - 31K1
 TAPPI Official Test Method T826

Report #677
February 2026

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	
RPZNA6	NO DATA	21.1	21.1 L	24.1 XH	22.1	1.77	1.6	1.8 H	21.3	0.85	1.5	1.2	8	LU
RUB7JD_AL	21.5	22.5	22.1	22.9 *L	22.2	1.96 *	1.1	0.6	21.5	1.15	1.2	0.7	12	AL
T6NDNX	21.7	21.7	21.2	21.4	21.5	1.08	1.4	0.2	21.7	1.37	1.3	0.7	12	LA
TEF4FE	21.3	20.6	20.8	20.7	20.9	0.30	1.3	0.3	21.0	0.45	1.2	0.3	12	LH
TZEZ3T	21.3	21.0	19.0	20.4	20.4	-0.19	1.5	1.0	20.8	0.22	1.6	0.7	12	TT
U68GVX	19.8	19.0	18.7 *	19.4	19.3	-1.59	1.4	0.5	19.1	-1.94 *	1.4	0.4	12	LZ
URFULW	19.7	19.8	19.6	20.1	19.8	-0.93	1.6	0.2	19.8	-0.96	1.6	0.4	12	LU
URFULW_AL	19.9	20.1 H	19.7	20.0	19.9	-0.79	1.9	0.2	20.1	-0.68	1.7	0.4	12	AL
UXLQ6W	20.9	20.0	21.1	20.7	20.7	0.09	1.4	0.5	20.6	0.00	1.5	0.5	12	LA
V2KWBA_AL	25.4 X	25.6 X	24.4 X	25.7 X	25.3	5.55 X	1.7	0.6	25.8	6.62 X	1.8	0.7	12	AL
V94YHC	20.6	21.2	21.6	20.9	21.1	0.58	1.6	0.4	21.1	0.67	1.6	0.5	12	LH
V9MB8P_AL	20.4	21.0	20.5	21.8	20.9	0.39	1.6	0.6	21.6	1.25	1.6	0.9	8	AK
VMG3Q6_AL	21.7 L	22.3	22.0	22.5 *H	22.1	1.82	1.6	0.3	22.0	1.80	1.4	1.0	12	XX
VPMKPZ	20.2	20.1	18.5 *	20.1	19.7	-1.05	1.1	0.8	19.7	-1.13	1.1	0.5	12	LW
WBL9T2_AL	20.8	20.0 L	20.0	20.6 L	20.4	-0.28	1.0	0.4	20.7	0.07	1.3	0.8	12	AL
WL7FTQ	20.6	20.9	21.6	21.2	21.1	0.57	1.8	0.4	21.1	0.61	1.8	0.4	4	XX
XD8ACU_AL	23.1 XH	22.0	22.4 *	22.5 *	22.5	2.26 *	1.9	0.4	22.6	2.50 *	1.7	0.5	12	AL
XZGF3L	19.4 L	18.6 *L	19.0 L	19.6 L	19.1	-1.73	0.3	0.4	19.2	-1.75	0.5	0.7	12	LZ
YQ7EGL	19.4 L	18.6 *L	19.0 L	19.5 L	19.1	-1.74	0.3	0.4	19.4	-1.58	0.7	0.6	12	LZ
ZRWQ66	20.8	20.2	20.4	NO DATA	20.5	-0.13	1.7	0.3	20.5	-0.13	1.7	0.3	5	TT

Consensus (All Labs) Results									
Wk Mean	20.52	20.74	20.54	20.62	Month Mean	20.59	Grand Mean	20.59	
Avg SDr	1.52	1.46	1.35	1.43	Avg SD	1.45	Avg SD	1.42	
SD btwn Labs	0.70	1.00	0.90	0.88	SD btwn Labs	0.84	SD btwn Labs	0.79	
Labs Incl	47	51	50	49	SD btwn Wks	0.56	SD btwn Wks	0.74	
Labs Excl	6	2	3	4	Labs Incl	52	Labs Incl	50	
Labs not Rcvd	2	2	2	2					

Key to Instrument Codes Reported by Participants

AK	L & W Autoline 300	AL	L & W Autoline 400
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 (was 52M)	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 - 42N
 TAPPI Official Test Method T575

Report #677
February 2026

WebCode	Monthly Results			Cumulative Results				
	Mean	CPV	SD	Mean	CPV	SD Months	Months	Inst
2ACTNQ	162.9	0.36	21.80	150.1	-0.31	20.72	3	LS
2VDNJY	148.8	-0.28	19.99	137.8	-0.99	11.53	3	LA
32DM8U	124.2	-1.41	14.51	132.6	-1.27	7.73	3	LS
6BGJ7H	177.1	1.01	18.33	181.5	1.40	14.24	3	EV
FK8KD4	147.1	-0.36	14.43	151.5	-0.24	10.41	3	LA
HC8CWP_AL	130.1	-1.14	16.07	139.2	-0.91	12.99	2	AL
HHURAF_AL	43.1	-5.12 X	1.93 L	95.1	-3.32 X	45.03 H	3	AL
JGTD3D	130.7	-1.11	6.50 L	126.8	-1.58	4.62	3	XX
JVET6D	179.1	1.10	20.65	169.6	0.75	12.74	3	LA
LBFEK4	171.6	0.76	29.46 H	167.5	0.64	3.87	3	LA
LJAKE6	201.9	2.15 *	17.94	185.7	1.63	25.05	3	EV
LMTFGX	181.5	1.22	24.95	173.4	0.96	13.21	3	LA
LTXC64_AL	130.2	-1.13	21.62	126.2	-1.62	10.03	3	AL
NKJGAG_AL	170.5	0.71	18.42	174.2	1.00	4.55	3	AL
NM7NJX	165.7	0.49	15.11	169.3	0.73	19.35	3	LS
Q9EZ2V	0.3	-7.08 X	0.02 L	46.4	-5.97 X	79.86 H	3	LA
Q9EZ2V_AL	131.7	-1.07	16.45	152.9	-0.16	24.01	3	AL
R6V6Y3	158.9	0.18	19.30	164.6	0.48	10.93	3	LS
REFCXR	176.7	0.99	23.21	169.8	0.76	8.81	3	LA
RPZNA6	169.0	0.64	14.70	166.9	0.60	6.55	3	EV
RUB7JD_AL	114.6	-1.85	8.60	122.7	-1.81	10.55	3	AL
T6NDNX	157.8	0.13	13.98	157.7	0.10	1.41 L	3	LA
TZEZ3T	174.0	0.87	18.93	174.5	1.02	16.11	3	EV
U68GVX	162.2	0.33	15.88	170.8	0.81	21.01	3	EV
URFULW	158.4	0.16	14.78	156.6	0.04	4.80	3	XX
URFULW_AL	137.4	-0.81	25.26	151.0	-0.26	11.84	3	AL
V2KWBA_AL	29.2	-5.76 X	6.63 L	45.2	-6.04 X	28.76 H	3	AL
V94YHC	161.6	0.30	12.84	166.0	0.56	12.37	3	EV
VMG3Q6_AL	129.1	-1.19	15.50	133.6	-1.21	4.02	3	AL
XD8ACU_AL	131.7	-1.06	9.16	135.6	-1.11	3.43	3	AL

Consensus (All Labs) Results			
Month Mean	154.98	Grand Mean	155.86
Avg SD	18.08	Avg SD Months	13.01
SD btwn Labs	21.84	SD btwn Labs	18.32
Labs Incl	27	Labs Incl	27



Containerboard Interlaboratory Testing Program
Analysis 228
Roughness - Stylus Method, 42 lb Linerboard - 42N1
TAPPI Official Test Method T575

Report #677
February 2026

Key to Instrument Codes Reported by Participants

AL	L & W Autoline 400	EV	Emveco Microgag 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 - 42N1
 TAPPI Official Test Method T538

Report #677
February 2026

WebCode	Monthly Results			Cumulative Results				
	Mean	CPV	SD	Mean	CPV	SD Months	Months	Inst
CECGZG_AL	386.8	1.03	12.56	386.8	1.03	0.00	1	AL
DB6NEG_AL	385.7	0.95	7.85	385.7	0.95	0.00	1	XX
HC8CWP_AL	353.9	-1.42	5.28	353.9	-1.42	0.00	1	AL
NKJGAG_AL	391.2	1.35	9.81	391.2	1.35	0.00	1	AL
NM7NJX	373.2	0.02	12.75	373.2	0.02	0.00	1	XX
Q9EZ2V_AL	363.8	-0.68	8.31	363.8	-0.68	0.00	1	AL
QGTLBY	380.2	0.54	4.42	380.2	0.54	0.00	1	XX
TZEZ3T	380.0	0.52	8.03	380.0	0.52	0.00	1	XX
URFULW_AL	376.9	0.29	7.22	376.9	0.29	0.00	1	AL
V9MB8P_AL	381.7	0.65	6.66	381.7	0.65	0.00	1	AK
VMG3Q6_AL	371.2	-0.13	12.93	371.2	-0.13	0.00	1	XX
WBL9T2_AL	372.8	-0.01	11.00	372.8	-0.01	0.00	1	AL
WNABCU	343.4	-2.20 *	6.00	343.4	-2.20 *	0.00	1	TS
XD8ACU_AL	360.9	-0.90	10.55	360.9	-0.90	0.00	1	AL

Consensus (All Labs) Results			
Month Mean	372.98	Grand Mean	372.98
Avg SD	9.22	Avg SD Months	0.00
SD btwn Labs	13.45	SD btwn Labs	13.45
Labs Incd	14	Labs Incd	14

Key to Instrument Codes Reported by Participants

- | | |
|--|--|
| AK L & W Autoline 300
TS TMI Monitor/Smoothness | AL L & W Autoline 400
XX Instrument make/model not specified by lab |
|--|--|



Containerboard Interlaboratory Testing Program
 Analysis 231
Internal Bond, 42 lb Linerboard - 42N1
 TAPPI Official Test Method T569

Report #677
February 2026

WebCode	Monthly Results				Cumulative Results				
	Mean	CPV	SD		Mean	CPV	SD Months	Months	Inst
27ECBW	115.4	-0.77	12.90		115.4	-0.77	0.00	1	TM
32DM8U	100.7	-1.71	5.69		100.7	-1.71	0.00	1	TM
36WHBM	145.4	1.13	7.30		145.4	1.13	0.00	1	HY
8E47UL	115.2	-0.79	8.17		115.2	-0.79	0.00	1	HZ
A3LFFW	138.2	0.67	11.43		138.2	0.67	0.00	1	HY
CECGZG	134.6	0.45	1.45	L	134.6	0.45	0.00	1	TM
DB6NEG	140.4	0.81	5.68		140.4	0.81	0.00	1	HY
FLZ36Q	132.2	0.29	4.13		132.2	0.29	0.00	1	TM
HC8CWP	121.0	-0.42	7.87		121.0	-0.42	0.00	1	TM
HHURAF	103.2	-1.55	5.36		103.2	-1.55	0.00	1	TM
JVET6D	159.6	2.03 *	2.88		159.6	2.03 *	0.00	1	HY
LJAKE6	130.4	0.18	6.84		130.4	0.18	0.00	1	HZ
MDZG84	129.4	0.12	4.72		129.4	0.12	0.00	1	TM
NKJGAG	99.6	-1.78	7.99		99.6	-1.78	0.00	1	TM
QGTLBY	138.1	0.67	3.68		138.1	0.67	0.00	1	HY
R6V6Y3	138.8	0.71	3.13		138.8	0.71	0.00	1	HY
RPZNA6	129.2	0.10	9.09		129.2	0.10	0.00	1	TM
URFULW	134.4	0.43	4.04		134.4	0.43	0.00	1	TM
UXLQ6W	128.0	0.03	9.35		128.0	0.03	0.00	1	HZ
V2KWBA	123.2	-0.28	8.14		123.2	-0.28	0.00	1	XX
V94YHC	143.4	1.00	5.22		143.4	1.00	0.00	1	TM
WBL9T2	133.4	0.37	10.33		133.4	0.37	0.00	1	LZ
ZRWQ66	100.6	-1.71	2.77		100.6	-1.71	0.00	1	TM

Consensus (All Labs) Results			
Month Mean	127.58	Grand Mean	127.58
Avg SD	7.07	Avg SD Months	0.00
SD btwn Labs	15.76	SD btwn Labs	15.76
Labs Incd	23	Labs Incd	23

Consensus By Method

Test Method	Group Mean	SD btwn Group	Difference from Grand Mean	Labs Included
Scott Bond Type	125.54	16.07	2.04	16
Modified Scott Bond Mechanics	141.42	12.28	13.84	4



Containerboard Interlaboratory Testing Program
Analysis 231
Internal Bond, 42 lb Linerboard - 42N1
TAPPI Official Test Method T569

Report #677
February 2026

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)	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 - 42N
 TAPPI Official Test Method T815

Report #677
February 2026

WebCode	Monthly Results			Cumulative Results			
	Mean	CPV	SD	Mean	CPV	SD Months	Months
2ACTNQ	21.2	-1.53	0.84	20.7	-2.33 *	0.64	3
32DM8U	26.4	0.35	1.67	26.3	0.04	0.61	3
36WHBM	25.0	-0.16	1.41	25.7	-0.19	0.64	3
39D3YM	22.7	-0.99	4.74	24.6	-0.66	2.93	3
438VTJ	23.2	-0.81	1.92	23.8	-1.02	0.60	3
A3LFFW	36.4	3.96 X	1.14	26.3	0.07	8.97 H	3
DB6NEG	28.4	1.07	4.39	28.6	1.04	0.92	3
HC8CWP	26.4	0.33	1.85	28.2	0.86	1.59	3
HHURAF	31.0	2.02 *	2.68	28.4	0.94	2.40	3
JGTD3D	27.2	0.64	1.92	27.5	0.58	0.42 L	3
JVET6D	26.8	0.49	2.77	25.7	-0.22	1.03	3
KMET7B	23.6	-0.67	1.82	25.7	-0.22	4.47	3
LJAKE6	29.4	1.43	2.97	29.6	1.46	3.05	3
LMTFGX	27.8	0.85	1.30	24.7	-0.62	2.69	3
LTXC64	24.0	-0.52	4.42	25.5	-0.27	4.50	3
NKJGAG	16.5	-3.23 X	5.18	16.7	-4.06 X	1.41	3
NM7NJX	23.1	-0.85	6.54 H	27.8	0.70	4.12	3
QGTLBY	24.9	-0.18	3.54	24.9	-0.53	0.15 L	3
R6V6Y3	25.2	-0.09	1.64	32.3	2.61 *	6.38 H	3
REFCXR	21.9	-1.27	1.09	26.1	-0.01	5.61	3
RPZNA6	31.6	2.23 *	2.70	28.9	1.18	2.39	3
U4CYUW	26.8	0.49	0.84	26.5	0.14	0.42	2
U68GVX	23.2	-0.80	2.76	26.1	-0.02	2.52	3
URFULW	24.4	-0.38	1.14	23.3	-1.24	1.21	3
V2KWBA	26.8	0.49	3.25	24.7	-0.62	1.86	3
V94YHC	25.8	0.13	2.17	26.5	0.14	1.04	3
WBL9T2	21.4	-1.46	2.30	22.7	-1.50	1.21	3
XD8ACU	23.2	-0.80	1.78	25.3	-0.36	2.37	3

Consensus (All Labs) Results			
Month Mean	25.44	Grand Mean	26.17
Avg SD	2.82	Avg SD Months	3.17
SD btwn Labs	2.77	SD btwn Labs	2.33
Labs Incl	26	Labs Incl	27

Key to Instrument Codes Reported by Participants

ZZ Instruments No Longer Tracked



Containerboard Interlaboratory Testing Program
Analysis 237

Report #677
February 2026

Air Resistance, 42 Ib Linerboard - 42N

TAPPI Official Test Method T460

WebCode	Monthly Results			Cumulative Results				
	Mean	CPV	SD	Mean	CPV	SD Months	Months	Inst
2ACTNQ	42.0	-0.71	4.45	42.0	-0.64	0.44	3	TD
2CJ8VW	44.5	0.65	2.61	43.8	0.35	0.99	3	LP
2VDNJY	43.2	-0.06	3.68	43.8	0.37	0.69	3	LA
39D3YM	43.6	0.18	3.32	44.0	0.46	0.43	3	LP
438VTJ	42.6	-0.38	4.80	43.0	-0.05	0.73	3	XX
8E47UL	42.1	-0.66	2.43	43.4	0.14	1.45	3	LP
8KCAZN	36.0	-4.03 X	2.40	41.6	-0.86	4.98 H	3	XX
CECGZG_AL	39.2	-2.28 *	2.21	39.7	-1.85	0.78	3	AL
DB6NEG	43.2	-0.05	3.70	46.0	1.56	2.49	3	TP
DB6NEG_AL	43.7	0.20	1.74	42.2	-0.51	1.51	3	XX
FK8KD4	45.1	0.97	2.04	45.6	1.36	1.14	3	LA
HC8CWP_AL	44.1	0.43	3.06	42.7	-0.25	1.95	3	AL
HHURAF_AL	44.1	0.41	2.04	42.4	-0.40	2.33	3	AL
J8QVQB_AL	43.7	0.19	3.35	42.8	-0.18	0.76	3	AL
JGTD3D	43.6	0.14	2.69	39.0	-2.27 *	7.59 H	3	LP
JVET6D	45.7	1.29	9.79 H	45.5	1.30	2.06	3	LP
KMET7B_AL	45.6	1.27	2.29	44.2	0.58	1.98	3	AL
LBFEK4	41.6	-0.93	3.04	43.2	0.03	1.38	3	LA
LJAKE6	44.3	0.55	0.96 L	44.3	0.62	1.00	3	LP
LMTFGX	41.2	-1.18	2.05	41.0	-1.18	0.63	3	LA
LTXC64_AL	40.6	-1.47	2.31	40.2	-1.60	1.11	3	AL
NKJGAG_AL	41.7	-0.88	2.75	42.1	-0.54	1.02	3	AL
NM7NJX	47.8	2.46 *	6.46 H	46.6	1.89	1.39	3	GA
Q9EZ2V_AL	42.5	-0.47	1.65	42.3	-0.46	0.47	3	XX
QGTLBY	45.1	1.00	3.88	44.9	0.97	1.75	3	TP
R6V6Y3	43.7	0.19	2.53	43.9	0.41	0.53	3	LP
REFCXR	43.4	0.03	3.96	40.0	-1.70	6.05 H	3	LA
RPZNA6_AL	41.3	-1.12	2.47	42.4	-0.38	1.23	3	AL
RUB7JD_AL	43.3	-0.01	1.45 L	43.5	0.17	0.37	3	AL
T6NDNX	45.8	1.37	2.34	46.7	1.93 *	0.82	3	LA
U4CYUW	44.4	0.61	3.04	43.7	0.32	1.00	2	LP
URFULW	42.9	-0.22	1.28 L	44.4	0.70	1.52	3	LP
URFULW_AL	44.1	0.45	2.04	45.1	1.10	0.92	3	AL
UZPLNZ	44.5	0.66	1.72	44.5	0.75	0.25 L	3	LP
V2KWBA_AL	45.2	1.02	2.32	44.8	0.94	1.61	3	AL
V94YHC	45.4	1.15	3.67	44.2	0.59	1.06	3	LP
V9MB8P_AL	41.1	-1.20	1.44 L	41.6	-0.87	0.58	2	AK
VMG3Q6_AL	44.7	0.74	1.74	43.1	-0.04	1.85	3	XX
WBL9T2_AL	40.9	-1.32	2.27	43.6	0.25	2.32	3	AL



Containerboard Interlaboratory Testing Program
Analysis 237

Report #677
February 2026

Air Resistance, 42 lb Linerboard - 42N

TAPPI Official Test Method T460

WebCode	Monthly Results			Cumulative Results				
	Mean	CPV	SD	Mean	CPV	SD Months	Months	Inst
WTZKLR	40.4	-1.60	3.50	41.9	-0.67	1.96	3	GG
XD&ACU_AL	40.3	-1.69	3.72	40.7	-1.31	0.46	3	AL
ZRWQ66	43.8	0.27	5.17	41.3	-1.02	2.34	3	GA

Consensus (All Labs) Results				
Month Mean		43.31	Grand Mean	43.13
Avg SD		3.35	Avg SD Months	2.14
SD btwn Labs		1.81	SD btwn Labs	1.83
Labs Incl		41	Labs Incl	42

Key to Instrument Codes Reported by Participants

- | | | | |
|-----------|---|-----------|---|
| AK | L & W Autoline 300 | 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 |
| 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 - CM61
 TAPPI Official Test Method T809

Report #677
February 2026

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	
2CJ8VW	51.6 L	50.9 L	52.3	51.3	51.5	-0.59	1.3	0.6	52.4	-0.40	1.7	1.9	12	LD
2ZQNGQ	58.9 *L	60.6 *L	62.2 XL	61.5 *L	60.8	2.61 *	0.8	1.4	60.0	2.19 *	0.7	1.4	12	XX
36WHBM	50.9	51.1	52.6	50.8	51.4	-0.64	2.3	0.8	50.3	-1.11	2.4	1.5	12	LD
39D3YM	55.9	55.9	56.4	53.8	55.5	0.78	3.2	1.2	56.0	0.82	3.2	1.4	8	LD
3EL77P	52.0	52.5	50.2	51.2	51.4	-0.61	2.5	1.0	52.2	-0.44	2.3	1.0	12	LD
438VTJ	54.8	54.3	55.8	56.1	55.3	0.70	2.8	0.8	55.8	0.76	2.6	0.9	12	LD
7TRVAR	52.3	49.2	52.5	49.9	51.0	-0.77	3.0	1.7	52.4	-0.39	3.1	2.8	12	LD
8KCAZN	50.9	51.8	52.1	49.4	51.1	-0.74	2.2	1.2	51.1	-0.84	2.1	1.6	12	LD
8NCKWN	58.4	59.0	59.1 *	59.1	58.9	1.96 *	2.3	0.4	58.8	1.77	3.6	1.5	12	TB
96ZM4Y	56.3 L	56.4 L	56.4 L	56.4 L	56.4	1.09	0.6	0.0 L	57.7	1.42	0.5	1.0	12	LD
C7XUKK	55.3	55.6	58.5	56.2	56.4	1.09	2.5	1.4	60.1	2.21 *	2.5	6.1 H	12	LD
DB6NEG	50.5	51.4	51.7	51.3	51.2	-0.70	2.5	0.5	51.0	-0.86	2.3	0.7	12	LD
DCEP2F	55.8 L	55.9 L	56.0 L	55.9 L	55.9	0.93	0.7	0.1 L	55.3	0.60	0.6	2.6	12	TU
E46MFE	53.0	53.0	52.9	52.6	52.9	-0.12	1.8	0.2 L	50.6	-1.00	1.7	1.7	12	MB
HC8CWP	50.6	49.6	49.5	52.1	50.5	-0.95	2.4	1.2	50.6	-1.00	2.3	1.0	12	LD
J8QVQB	54.0	52.7	52.8	No DATA	53.2	-0.02	2.2	0.7	53.3	-0.07	5.8	2.4	11	LC
JGTD3D	51.4	54.6	55.0	58.2	54.8	0.54	1.9	2.8 H	54.2	0.21	1.9	1.8	12	LD
JVET6D	55.9	54.0	52.0	52.4	53.6	0.13	2.5	1.8	53.5	0.00	2.6	1.7	12	XX
LJAKE6	53.1	53.5	55.1	52.5	53.6	0.11	2.7	1.1	54.0	0.14	2.9	1.2	12	LZ
LMTFGX	49.2	49.2	48.2 H	44.8 *H	47.9	-1.84	3.9	2.1	49.7	-1.29	4.0	2.2	12	MB
LTXC64	54.0	53.9	53.1	53.0	53.5	0.10	2.2	0.5	54.1	0.20	2.3	1.1	12	LZ
MDZG84	54.7	57.0	57.6	54.8	56.0	0.97	2.9	1.5	57.8	1.44	2.4	2.0	12	LC
MLF3D2	45.4 *	47.6 H	36.0 X	46.4 H	43.8	-3.23 X	5.6	5.3 H	43.8	-3.29 X	5.6	5.3 H	4	TX
P47PKG	47.6	47.8	46.7 *	47.3	47.4	-2.02 *	2.0	0.5	48.3	-1.76	2.3	1.3	12	LD
PKDL4F	54.6 L	52.7	51.3	51.6	52.5	-0.23	2.5	1.5	53.1	-0.14	2.6	1.3	12	LD
PPP6C3	55.9	55.4	57.1	57.3	56.4	1.11	2.9	0.9	56.3	0.94	2.8	1.0	12	LD
Q9EZ2V	53.9	49.6	50.7	50.2	51.1	-0.74	2.4	2.0	53.1	-0.16	2.5	2.7	12	LD
QGTLBY	52.0	52.3	49.7	52.4	51.6	-0.56	2.7	1.3	52.3	-0.42	2.5	1.3	12	LC
QZNFZ3	55.2	54.1	56.4	54.0	54.9	0.59	2.1	1.1	54.5	0.33	2.2	1.2	12	LZ
R6V6Y3	No DATA	No DATA	No DATA	51.5	51.5	-0.59	2.1	0.0	50.3	-1.10	2.0	1.1	3	LD
REFCXR	55.1 H	53.4	54.1	52.3	53.7	0.17	4.0	1.2	55.0	0.51	3.3	2.9	12	LD
T4AJTC	54.6	54.0	53.6	54.6	54.2	0.35	2.4	0.5	53.9	0.12	2.5	1.7	12	TX
T6NDNX	53.1 H	58.1	52.4	61.6 *	56.3	1.06	4.2	4.3 H	56.7	1.06	3.7	2.4	12	TU
TEF4FE	51.7	51.2	52.5	51.3	51.6	-0.54	2.0	0.6	50.9	-0.90	2.1	1.0	12	EM
TZEZ3T	53.4	52.5	52.0	50.5	52.1	-0.38	2.8	1.2	54.1	0.19	2.6	1.7	12	TX



Containerboard Interlaboratory Testing Program
Analysis 240

Report #677
February 2026

Flat Crush Strength (CMT), 26 lb Corrugating Medium - CM61

TAPPI Official Test Method T809

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
U4CYUW	47.8	48.4	48.4	49.0	48.4	-1.65	2.2	0.5	49.3	-1.43	2.0	1.2	12	LZ
U68GVX	54.2	54.9	52.4	52.1	53.4	0.07	2.5	1.4	52.8	-0.24	3.0	1.0	12	EN
URFULW	51.6	51.6	51.6	51.0	51.5	-0.60	3.6	0.3	51.7	-0.63	3.4	0.7	12	LD
UXLQ6W	51.1 L	51.6	50.8	51.4	51.2	-0.68	1.6	0.4	50.9	-0.90	2.1	1.2	12	LD
UZPLNZ	50.4	49.6	51.4	51.6	50.7	-0.85	2.7	0.9	51.9	-0.56	2.7	1.1	12	LD
V2KWBA	56.4	54.1	55.8	56.1	55.6	0.82	2.3	1.0	55.4	0.63	2.6	0.8	12	LZ
WBL9T2	49.2	49.1	48.5	48.1	48.7	-1.54	1.9	0.5	48.6	-1.66	2.0	1.1	12	LD
XGMKPY	56.4	58.0	57.9	58.4	57.7	1.53	2.9	0.9	57.5	1.34	2.5	1.5	12	LC
XZGF3L	55.6 L	55.4	55.0 L	54.7 L	55.2	0.67	1.2	0.4	54.8	0.43	1.2	1.4	12	XX

Consensus (All Labs) Results														
Wk Mean	53.13	53.11	53.12	52.95	Month Mean	53.22			Grand Mean	53.54				
Avg SDr	2.54	2.58	2.64	2.76	Avg SD	2.50			Avg SD	2.62				
SD btwn Labs	2.90	3.07	3.00	3.68	SD btwn Labs	2.91			SD btwn Labs	2.95				
Labs Incd	43	43	41	43	SD btwn Wks	1.30			SD btwn Wks	1.84				
Labs Excld	0	0	2	0	Labs Incd	43			Labs Incd	43				
Labs not Rcvd	1	1	1	1										

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	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 #677
February 2026

Fluted Edge Crush Strength (FCF), 26 lb Corrugating Medium - CM61

TAPPI Official Test Method T843

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	
2CJ8VW	61.7	62.2	61.0	62.9	61.9	0.66	1.5	0.8	61.6	1.52	1.6	1.1	12	LD
2ZQNGQ	71.2 *L	70.4 *L	72.3 *L	71.3 *L	71.3	2.51 *	0.8	0.8	70.5	6.00 X	0.9	1.0	12	XX
36WHBM	59.2	56.7	59.4	57.4	58.2	-0.08	2.6	1.3	58.5	0.00	2.8	1.2	12	LD
42VUBQ	53.5	53.4	53.3	54.0	53.6	-1.00	1.9	0.3	54.1	-2.21 *	1.8	1.3	12	LD
438VTJ	52.2 H	50.2	50.0 H	51.2	50.9	-1.52	3.9	1.0	51.3	-3.63 X	3.6	1.0	12	XX
C7XUKK	51.8	58.4	50.2 H	53.8	53.6	-1.00	4.1	3.6 H	60.4	0.95	3.0	7.7 H	12	LD
DB6NEG	61.7	60.4	60.8	59.6	60.6	0.39	1.8	0.9	60.5	1.01	2.8	0.7	12	LD
E46MFE	59.6	59.5	59.6	59.3	59.5	0.18	1.7	0.1 L	58.2	-0.18	1.7	1.0	12	MB
HC8CWP	58.4	59.4	61.1	60.4	59.8	0.24	1.7	1.2	59.0	0.25	3.1	1.9	12	LD
J8QVQB	60.6	60.4	60.7	No DATA	60.6	0.39	1.5	0.2 L	60.8	1.13	1.8	1.2	11	LC
JGTD3D	58.2	59.0	58.8	53.8	57.4	-0.23	2.2	2.5	58.4	-0.05	2.8	2.0	12	LD
JVET6D	61.6 L	60.7	58.2	59.8 L	60.1	0.29	1.9	1.4	60.3	0.88	1.9	1.3	12	XX
LTXC64	54.0	52.5 H	54.6	52.4	53.4	-1.04	2.9	1.1	54.2	-2.18 *	3.0	1.0	12	LZ
NTDL4H	56.9	57.0	56.8	57.2	57.0	-0.32	2.2	0.2 L	57.7	-0.43	1.8	0.6 L	12	LC
Q9EZ2V	59.0	58.0	59.3	60.4	59.2	0.11	2.3	1.0	58.0	-0.26	2.3	2.5	12	XX
QGTLBY	58.9	56.2	57.8	58.4	57.8	-0.16	1.9	1.2	59.0	0.24	1.9	1.4	12	LC
QZNFZ3	57.7 L	56.8	57.9	57.5	57.5	-0.22	2.1	0.5	57.8	-0.38	2.1	0.9	12	LZ
REFCXR	71.2 *H	70.0 *H	71.0 *H	70.8 *H	70.7	2.40 *	5.3	0.6	66.5	3.99 X	4.3	7.2 H	12	LD
U4CYUW	62.6	61.1	62.2	62.6	62.1	0.70	1.8	0.7	59.2	0.32	6.2	3.6	8	LD
URFULW	48.5 *	49.6	49.8	49.5	49.4	-1.83	2.7	0.6	48.0	-5.28 X	4.0	1.3	12	LD
UZPLNZ	58.6	58.4	56.8	58.5	58.1	-0.11	1.9	0.9	57.8	-0.36	2.0	1.0	12	LD
WBL9T2	57.4	57.8	58.6	57.4	57.8	-0.16	2.0	0.6	58.8	0.12	2.0	1.3	12	LD
XZGF3L	61.5	60.1 L	60.0 L	60.5 L	60.5	0.38	1.0	0.7	60.3	0.88	1.1	2.9	12	XX
YZWR67	56.1 H	52.5	58.3	55.3	55.5	-0.61	3.1	2.4	56.1	-1.23	3.1	2.5	12	LD

Consensus (All Labs) Results													
Wk Mean	58.85	58.36	58.67	58.43	Month Mean	58.60			Grand Mean	58.52			
Avg SDr	2.44	2.54	2.50	2.51	Avg SD	2.49			Avg SD	2.66			
SD btwn Labs	5.20	4.98	5.34	5.30	SD btwn Labs	5.06			SD btwn Labs	1.99			
Labs Incl	24	24	24	23	SD btwn Wks	1.28			SD btwn Wks	2.40			
Labs Excl	0	0	0	0	Labs Incl	24			Labs Incl	20			
Labs not Rcvd	0	0	0	1									



Containerboard Interlaboratory Testing Program
Analysis 250

Report #677
February 2026

Fluted Edge Crush Strength (CFC), 26 lb Corrugating Medium - CM61
TAPPI Official Test Method T843

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)	MB	Messmer Buchel K440
XX	Instrument make/model not specified by lab		



Containerboard Interlaboratory Testing Program
 Analysis 255
Ring Crush (RCT), 26 lb Corrugating Medium - CM61
 TAPPI Official Test Method T822

Report #677
February 2026

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	
2CJ8VW	30.2	30.9	L 31.4	31.5	31.0	-1.47	1.5	0.6	30.8	-1.65	1.3	1.1	12	LD
36WHBM	33.1	32.4	33.1	34.9	33.4	-0.23	1.9	1.1	32.4	-0.65	2.1	1.1	12	LD
39D3YM	32.0	32.0	33.9	34.4	33.1	-0.38	2.5	1.3	33.1	-0.22	2.3	1.2	12	LD
3EL77P	32.6	33.8	32.7	33.0	33.0	-0.41	2.0	0.5	34.4	0.57	2.0	1.5	12	EM
8KCAZN	35.4	35.8	35.0	35.6	35.4	0.85	1.6	0.3	34.7	0.79	1.8	1.5	12	LD
8NCKWN	36.9	35.5	34.4	34.9	35.4	0.84	2.4	1.1	35.0	0.99	1.9	1.6	12	XX
96ZM4Y	38.3 *L	38.4 *L	38.3 L	38.4 *L	38.3	2.35 *	0.6	0.0 L	41.5	5.08 X	0.6	2.4	12	LD
DB6NEG	32.7	31.2	29.9	30.5	31.1	-1.42	1.6	1.2	30.7	-1.74	1.6	0.9	12	LD
DCEP2F	32.9 L	32.6 L	33.0 L	32.8 L	32.8	-0.52	0.6	0.2 L	32.8	-0.42	0.5	0.2 L	12	TU
E46MFE	31.4	31.2	31.6	31.5	31.4	-1.24	1.6	0.2 L	32.1	-0.84	1.5	0.6	12	MB
JVET6D	33.9	34.2	32.2	34.1	33.6	-0.11	2.0	1.0	33.1	-0.21	2.0	1.5	12	XX
LMTFGX	33.4	36.6 H	31.4	33.8	33.8	-0.02	2.4	2.1	33.0	-0.25	2.2	1.7	12	MB
NM7NJX	32.1	31.1 H	31.4	31.7	31.6	-1.16	2.3	0.4	31.4	-1.32	1.9	0.7	12	LD
PKDL4F	33.4	34.3	34.3	34.4	34.1	0.14	2.1	0.5	34.3	0.56	2.2	1.4	12	LD
PPP6C3	34.2	33.4	34.1	34.1	33.9	0.07	2.0	0.3	34.0	0.37	1.9	0.9	12	LD
Q9EZ2V	38.1	34.0	35.9	36.2	36.1	1.17	2.2	1.7	35.2	1.13	1.9	2.0	12	LD
QGTLBY	32.2	32.2	30.2	33.1	31.9	-0.98	2.7	1.2	32.2	-0.81	2.4	0.9	12	LC
T4AJTC	29.1	34.9	38.0	36.9 H	34.7	0.47	2.0	3.9 H	35.2	1.11	1.8	2.5	12	LZ
TZEZ3T	28.9 *	25.8 X	26.7 *H	25.4 X	26.7	-3.68 X	2.6	1.6	27.9	-3.50 X	2.6	1.9	12	MZ
U4CYUW	35.7	35.5	35.3	35.7 L	35.5	0.91	1.5	0.2	35.2	1.13	1.6	1.8	12	LD
UXLQ6W	34.6	31.0	33.8	31.6	32.7	-0.55	1.7	1.7	32.0	-0.90	1.6	1.2	12	LD
UZPLNZ	33.9	33.2	33.5	33.1	33.4	-0.20	1.4	0.4	32.8	-0.42	1.7	0.9	12	LD
V2KWBA	36.2	36.7	36.1	36.6	36.4	1.36	1.7	0.3	36.8	2.13 *	1.9	1.2	12	LZ
V9MB8P	32.0	31.5	32.1	31.0	31.6	-1.12	1.5	0.5	32.7	-0.47	2.0	1.3	8	LD
VW6UDW	32.8	32.8	33.4 L	32.6	32.9	-0.47	1.7	0.4	32.1	-0.86	1.6	1.5	12	TH
WBL9T2	33.1	32.5	31.7	31.5	32.2	-0.84	2.2	0.7	32.8	-0.40	2.2	1.2	12	LD
XGMKPY	35.9	36.8	35.6	35.9	36.0	1.16	2.1	0.5	35.0	1.00	1.8	1.3	12	XX
XZGF3L	34.5 L	32.5 L	34.6 L	33.7	33.8	0.01	0.7	1.0	33.1	-0.21	1.0	0.9	12	MZ
YZWR67	37.1	35.9	39.7 *	36.4	37.3	1.80	1.9	1.7	36.0	1.59	2.3	3.0 H	12	LD

Consensus (All Labs) Results														
Wk Mean	33.66	33.67	33.56	33.91	Month Mean	33.80			Grand Mean	33.45				
Avg SDr	2.09	1.87	1.74	1.86	Avg SD	1.87			Avg SD	1.86				
SD btwn Labs	2.39	2.09	2.69	2.04	SD btwn Labs	1.92			SD btwn Labs	1.58				
Labs Incl	29	28	29	28	SD btwn Wks	1.20			SD btwn Wks	1.43				
Labs Excl	0	1	0	1	Labs Incl	28			Labs Incl	27				
Labs not Rcvd	0	0	0	0										



Containerboard Interlaboratory Testing Program
Analysis 255
Ring Crush (RCT), 26 lb Corrugating Medium - CM61
TAPPI Official Test Method T822

Report #677
February 2026

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 - CM61
 TAPPI Official Test Method T826

Report #677
February 2026

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	
2ZQNGQ	11.9	11.8	11.5	11.4	11.7	0.26	0.9	0.3	11.1	-0.17	0.9	0.8	12	XX
36WHBM	10.4	10.4	10.2	10.6	10.4	-1.82	0.7	0.1	10.3	-1.63	0.7	0.3	12	LB
39D3YM	11.1	11.2	11.5	10.8	11.2	-0.56	0.8	0.3	11.1	-0.19	0.8	0.3	12	LH
438VTJ	11.7 L	11.3 L	11.7 L	11.6 L	11.6	0.12	0.0	0.2	11.3	0.19	0.0	0.4	12	LH
7NX762	10.8	10.8	10.6	11.2	10.9	-1.03	0.8	0.3	11.4	0.46	0.8	0.9	12	XX
C7XUUK	12.0 L	11.4 L	12.2 L	11.4 L	11.7	0.37	0.3	0.4	12.4	2.27 *	0.6	0.9	12	LA
DCEP2F	10.7	10.6	10.6	10.7	10.7	-1.39	0.9	0.1 L	10.6	-1.08	0.8	0.2	12	XX
FK8KD4	12.5	12.6 *	12.7	12.0	12.5	1.58	1.1	0.3	11.8	1.11	1.0	0.7	12	LA
HC8CWP	11.3	11.0	11.8	11.3	11.4	-0.25	0.7	0.3	11.4	0.43	0.7	1.0	12	LA
JGW9YK	11.6	11.3	11.7	11.4	11.5	0.02	0.8	0.2	10.8	-0.66	0.8	0.9	12	LU
LBFEK4	12.3 L	11.2 H	11.4 L	11.6	11.6	0.21	1.1	0.5	11.4	0.35	0.8	0.7	12	LA
LMTFGX	11.9	12.0	12.2	12.5 H	12.1	1.04	1.3	0.3	11.4	0.49	1.1	0.8	12	LA
MDZG84	10.2 *	10.2 *	10.7	11.6 L	10.7	-1.35	0.8	0.7	10.5	-1.20	0.8	0.6	12	LA
MLF3D2	10.7	10.7	11.8	10.1	10.8	-1.13	0.8	0.7	10.8	-0.73	0.9	0.5	8	TX
NM7NJX	11.0	10.5	15.0 X	10.4	11.7	0.35	0.7	2.2 H	11.2	0.13	0.7	1.8 H	12	LB
PKDL4F	11.6	11.8	11.2	11.2	11.5	-0.07	1.1	0.3	11.4	0.42	1.0	0.7	12	LH
Q9EZ2V	11.8	11.3	11.8	12.2	11.8	0.44	1.1	0.4	11.4	0.46	0.8	0.8	12	LZ
QGTLBY	10.6	11.0	11.0	10.7	10.8	-1.13	0.7	0.2	10.9	-0.48	0.7	0.2 L	12	LU
R6V6Y3	No DATA	No DATA	No DATA	10.9 L	10.9	-0.95	0.4	0.0	10.5	-1.11	0.6	0.3	3	LH
REFCXR	14.4 X	13.6 X	14.1 *	13.9 X	14.0	4.08 X	1.2	0.4	13.2	3.68 X	1.1	1.9 H	12	LA
T4AJTC	11.5 H	12.3 L	13.3	13.3 *	12.6	1.78	0.9	0.9	12.1	1.69	0.8	0.9	12	XX
T6NDNX	12.1	11.9	12.5	12.2	12.2	1.09	0.9	0.2	11.7	1.00	0.8	0.8	12	LA
TEF4FE	11.9	11.6	11.7	12.3	11.9	0.60	1.1	0.3	11.4	0.34	0.9	0.8	12	LH
TZEZ3T	12.8	11.6	9.9	10.2	11.1	-0.61	1.0	1.3 H	11.3	0.18	0.9	1.0	12	TS
U4CYUW	12.0	10.9	12.8	12.2	12.0	0.79	1.0	0.8	9.8	-2.46 *	0.7	1.8 H	12	LH
URFULW	11.0	11.3	11.2 H	11.9 H	11.4	-0.20	1.5	0.4	10.6	-0.99	1.1	0.6	12	LB
UXLQ6W	12.0	11.4	11.6	11.1	11.5	0.03	0.8	0.4	11.2	0.02	0.8	0.5	12	XX
V9MB8P	11.4	11.5 L	12.2 L	11.7	11.7	0.28	0.7	0.3	11.9	1.28	0.8	0.4	8	LH
WBL9T2	11.2	11.1 L	11.0 L	11.5 L	11.2	-0.48	0.5	0.2	11.1	-0.11	0.5	0.3	12	LA
XZGF3L	11.2 L	11.1 L	11.1 L	11.3 L	11.2	-0.52	0.2	0.1 L	11.2	0.00	0.4	0.8	12	XX
YZWR67	12.7	13.7 X	13.0	12.9	13.1	2.55 *	0.9	0.4	13.6	4.25 X	1.1	1.2	11	XX



Containerboard Interlaboratory Testing Program
 Analysis 261
STFI, 26 lb Corrugating Medium - CM61
 TAPPI Official Test Method T826

Report #677
February 2026

Consensus (All Labs) Results								
Wk Mean	11.52	11.29	11.69	11.48	Month Mean	11.51	Grand Mean	11.17
Avg SDr	0.86	0.94	0.85	0.94	Avg SD	0.89	Avg SD	0.81
SD btwn Labs	0.68	0.56	0.93	0.77	SD btwn Labs	0.62	SD btwn Labs	0.56
Labs Incd	29	28	29	30	SD btwn Wks	0.62	SD btwn Wks	0.80
Labs Excl'd	1	2	1	1	Labs Incd	30	Labs Incd	29
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