



Collaborative Testing Services, Inc. Containerboard Interlaboratory Testing Program

Participant Summary Report #548 (E) - May 2015

[Introduction to the Containerboard Program](#)

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

| Analysis | Sample Lot | Analysis Name |
|---------------------|----------------------|---|
| 201 | BOX9 | Box Compression Strength, Corrugated Boxes |
| 202 | ECT8 | Edgewise Compressive Strength, Wax (T811), Corrugated board |
| 203 | ECT8 | Edgewise Compressive Strength by Clamp (T839), Corrugated board |
| 205 | 42D1 | Mullen Burst of Linerboard, 42 lb Linerboard |
| 206 | 69C2 | Mullen Burst of Linerboard, 69 lb Linerboard |
| 215 | 42D1 | Ring Crush of Linerboard, Rigid Platen Type, 42 lb Linerboard |
| 216 | 69C2 | Ring Crush of Linerboard, Rigid Platen Type, 69 lb Linerboard |
| 223 | 42D1 | STFI of Linerboard, 42 lb Linerboard |
| 224 | 69C2 | STFI of Linerboard, 69 lb Linerboard |
| 228 | 69C | Roughness - Stylus Method, 69 lb Linerboard |
| 231 | 36Z | Internal Bond Strength, Linerboard, 36 lb Linerboard |
| 234 | 36Z | Coefficient of Static Friction - Inclined Plane, 36 lb Linerboard |
| 237 | 36Z | Air Resistance - Gurley Method, Linerboard, 36 lb Linerboard |
| 240 | CM73 | Flat Crush Strength (CMT) of Medium, 26 lb Corrugating Medium |
| 250 | CM73 | Fluted Crush of Medium, 26 lb Corrugating Medium |
| 255 | CM73 | Ring Crush of Medium, 26 lb Corrugating Medium |
| 261 | CM73 | STFI of Medium, 26 lb Corrugating Medium |

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, 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 80 countries, currently participate in the CTS programs.

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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; 36 lb. and 69 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 |
|------------------------|-----------------|-------------------------------|
| 36# Linerboard | 36Z1 | June 2010 - December 2011 |
| | 36Z2 | February 2012 - Current |
| 42# Linerboard | 42B2 | June 2012 - April 2013 |
| | 42B3 | May 2013 - Current |
| 69# Linerboard | 69A2 | January 2013 - September 2013 |
| | 69C1 | November 2013 - Current |
| 26# Corrugating Medium | CM73 | December 2012 - Current |

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 SDr - For each week, the average of the within-laboratory standard deviations (SDr's) for all the participants, excluding those laboratories flagged with an 'X'. The Avg SDr 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 Includ - The number of laboratory Means included in the Wk Mean for that week.
- Labs Exclud - 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 CPV - For each laboratory, the average of all the weekly Means reported for this month.
- **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.
- SDr - For each laboratory, the average of the weekly within-lab standard deviations (SDr'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 SDr - For the current month, the average of the within-laboratory standard deviations (SDr'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

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 (SDr'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 SDr | - For the cumulative period, the average of the within-laboratory standard deviations (SDr'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. |

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> |
|-------------|--------------------|
|-------------|--------------------|

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 SDr for each week is not shown, but laboratory average SDr and consensus average SDr values are shown. |
| L | Indicates low within-laboratory standard deviation. The laboratory SDr for each week is not shown, but laboratory monthly average SDr and consensus average SDr 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 - BOX9
TAPPI Official Test Method T804



| WebCode | Monthly Results | | | Cumulative Results | | | | |
|---------|-----------------|---------|-------|--------------------|-------|------|--------|------|
| | Mean | CPV | SDr | Mean | CPV | SDr | Months | Inst |
| 64PALZ | 742.2 | -1.49 | 31.4 | 743.2 | -1.72 | 33.1 | 3 | LG |
| 7CJ82U | 786.0 | -0.76 | 40.7 | 820.8 | -0.39 | 31.1 | 4 | ET |
| 9TWX3H | 779.2 | -0.88 | 50.7 | 838.5 | -0.09 | 47.9 | 4 | LM |
| 9WHCGY | 912.9 | 1.35 | 30.5 | 897.6 | 0.93 | 29.9 | 4 | TE |
| AD2P9W | 829.3 | -0.04 | 29.9 | 804.9 | -0.66 | 31.7 | 4 | LL |
| ALTDDR | 743.6 | -1.47 | 50.7 | 774.3 | -1.19 | 57.5 | 4 | ES |
| G2M9R7 | 865.0 | 0.55 | 103.8 | 830.7 | -0.22 | 69.4 | 4 | LS |
| G4MAGN | 925.6 | 1.56 | 32.8 | 935.6 | 1.58 | 33.0 | 4 | TB |
| HB6AM7 | 930.0 | 1.63 | 44.7 | 939.7 | 1.65 | 50.4 | 4 | TS |
| HB7YFN | 906.2 | 1.23 | 26.6 | 908.1 | 1.11 | 33.6 | 3 | LS |
| HG8LGG | 514.3 | -5.28 X | 60.5 | 800.9 | -0.73 | 46.7 | 4 | ER |
| HHQ8BT | 818.7 | -0.22 | 84.7 | 861.8 | 0.31 | 60.8 | 4 | ER |
| HUXD47 | 839.7 | 0.13 | 55.6 | 876.2 | 0.56 | 38.8 | 3 | LG |
| HXGARW | 833.0 | 0.02 | 36.6 | 826.0 | -0.30 | 50.1 | 4 | LG |
| LTRZ9A | 884.0 | 0.87 | 55.4 | 937.8 | 1.62 | 54.0 | 4 | LH |
| VLHVDT | 847.5 | 0.26 | 77.0 | 845.4 | 0.03 | 66.6 | 4 | ER |
| VMDEFU | 841.1 | 0.15 | 50.5 | 894.1 | 0.87 | 67.0 | 4 | LH |
| XHVTJT | 822.9 | -0.15 | 97.6 | 816.5 | -0.47 | 57.3 | 4 | EX |
| XL8ZHC | 806.6 | -0.42 | 59.0 | 810.6 | -0.57 | 62.3 | 4 | ER |
| XM8ZKX | 724.6 | -1.78 | 53.3 | 770.2 | -1.26 | 57.9 | 4 | LL |
| ZX22A8 | 800.4 | -0.52 | 40.5 | 782.6 | -1.05 | 47.0 | 4 | LM |

Consensus (All Labs) Results

| | | | |
|--------------|--------|--------------|--------|
| Month Mean | 831.93 | Grand Mean | 843.59 |
| Avg SDr | 56.93 | Avg SDr | 50.51 |
| SD btwn Labs | 60.19 | SD btwn Labs | 58.20 |
| Labs Incd | 20 | Labs Incd | 21 |

Consensus By Method

| Test Method | Group Mean | SD btwn Group | Difference from Grand Mean | Labs Included |
|---------------------------|------------|---------------|----------------------------|---------------|
| Hot melt adhesive sealing | 829.90 | 54.93 | 2.02 | 5 |
| Clip sealing | 787.29 | 94.32 | 44.63 | 13 |
| Tape sealing | 922.84 | 8.86 | 90.92 | 3 |

Containerboard Interlaboratory Testing Program
Analysis 201
Top to Bottom Box Compression Strength, Corrugated Boxes - BOX9
TAPPI Official Test Method T804



Instrument Code List as Reported by the Labs

(ER) - Emerson 6200 Series

(ET) - Emerson 7200

(LG) - TLS / L.A.B. Validator Series

(LL) - Lansmont 76-5K

(LS) - Lansmont Squeezer

(TE) - Testometric M500 - 25 KN

(ES) - Emerson 8510

(EX) - Emerson Apparatus (Model not specified)

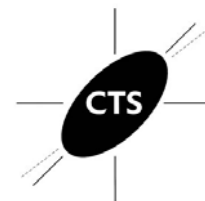
(LH) - L.A.B. Compression Tester Model #10610

(LM) - Lansmont 122-15k

(TB) - TMI Monitor/Compression Tester, Model 17-70

(TS) - Tinus Olsen Model CTM

Containerboard Interlaboratory Testing Program
 Analysis 202
Edgewise Compressive Strength, by T811, Corrugated board - ECT8
 TAPPI T811



| WebCode | Monthly Results | | | Cumulative Results | | | | |
|---------|-----------------|-------|-----|--------------------|--------|-----|--------|------|
| | Mean | CPV | SDr | Mean | CPV | SDr | Months | Inst |
| 7CJ82U | 64.4 | 1.56 | 2.5 | 66.2 | 2.12 * | 1.9 | 4 | TD |
| G2M9R7 | 58.2 | -0.03 | 2.1 | 57.4 | -0.23 | 1.9 | 4 | LC |
| H8LM2T | 60.2 | 0.48 | 1.9 | 57.2 | -0.26 | 3.6 | 4 | XX |
| HB7YFN | 51.5 | -1.73 | 2.5 | 53.3 | -1.31 | 2.4 | 2 | EM |
| HUWHHF | 58.5 | 0.04 | 1.5 | 58.2 | -0.02 | 1.4 | 3 | TB |
| HXGARW | 60.0 | 0.43 | 4.5 | 60.6 | 0.62 | 3.8 | 4 | LC |
| LTRZ9A | 52.0 | -1.62 | 1.1 | 53.2 | -1.35 | 2.0 | 4 | TC |
| QUC8K9 | 60.7 | 0.61 | 4.7 | 60.7 | 0.65 | 4.7 | 1 | LC |
| VLHVDT | 59.9 | 0.39 | 2.1 | 58.0 | -0.05 | 2.0 | 4 | EN |
| ZVCPDM | 57.8 | -0.13 | 0.9 | 57.6 | -0.18 | 1.2 | 3 | WK |

| Consensus (All Labs) Results | | | |
|------------------------------|-------|--------------|-------|
| Month Mean | 58.31 | Grand Mean | 58.24 |
| Avg SDr | 2.67 | Avg SDr | 2.71 |
| SD btwn Labs | 3.94 | SD btwn Labs | 3.77 |
| Labs Incl | 10 | Labs Incl | 10 |

Instrument Code List as Reported by the Labs

(EM) - Emerson 1200 Series

(EN) - Emerson 2200

(LC) - L&W Crush Tester 48

(TB) - TMI Monitor/Compression Tester, Model 17-70

(TC) - TMI Monitor/Compression Tester, Model 17-37

(TD) - TMI Digital Crush Tester, Model 17-09

(WK) - Zwick Z005 Crush Tester

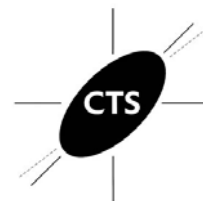
(XX) - Instrument make/model not specified by lab

Containerboard Interlaboratory Testing Program
Analysis 203
Edgewise Compressive Strength by T839, Corrugated board - ECT8
TAPPI T839



| WebCode | Monthly Results | | | Cumulative Results | | | | |
|---------|-----------------|---------|-----|--------------------|--------|-----|--------|------|
| | Mean | CPV | SDr | Mean | CPV | SDr | Months | Inst |
| 3TVEBY | 59.0 | 0.16 | 2.4 | 59.9 | 0.26 | 2.3 | 4 | LC |
| 4988FH | 59.1 | 0.20 | 2.0 | 56.3 | -1.25 | 3.4 | 4 | LD |
| 9TWX3H | 58.7 | 0.04 | 1.5 | 60.1 | 0.31 | 1.7 | 4 | TC |
| AD2P9W | 59.3 | 0.29 | 0.8 | 60.1 | 0.31 | 1.2 | 4 | BU |
| ALCP6T | 57.8 | -0.38 | 2.0 | 63.3 | 1.66 | 2.0 | 4 | TX |
| ALTDDR | 57.2 | -0.65 | 7.4 | 57.2 | -0.88 | 4.0 | 4 | LD |
| B7DUUQ | 62.4 | 1.69 | 2.9 | 59.4 | 0.05 | 2.3 | 4 | LD |
| BERJUK | 58.1 | -0.24 | 2.2 | 58.8 | -0.23 | 1.8 | 4 | TG |
| CTNMMW | 62.4 | 1.67 | 1.8 | 64.5 | 2.18 * | 1.4 | 4 | LC |
| FUMREE | 59.0 | 0.17 | 5.3 | 55.2 | -1.71 | 2.9 | 4 | LC |
| G2M9R7 | 59.0 | 0.14 | 3.0 | 59.0 | -0.11 | 2.1 | 4 | LC |
| G4MAGN | 56.3 | -1.04 | 1.0 | 60.5 | 0.49 | 1.1 | 4 | LC |
| HB6AM7 | 56.4 | -1.00 | 2.9 | 60.3 | 0.43 | 2.1 | 4 | CT |
| HB7YFN | 56.0 | -1.20 | 1.0 | 55.7 | -1.53 | 1.3 | 2 | EM |
| HG8LGG | 59.3 | 0.27 | 1.5 | 54.9 | -1.85 | 1.9 | 4 | EM |
| HHQ8BT | 55.2 | -1.56 | 5.4 | 58.7 | -0.25 | 3.7 | 4 | EN |
| HUWHHF | 58.7 | 0.03 | 1.1 | 58.6 | -0.31 | 1.2 | 3 | TG |
| HUXD47 | 57.7 | -0.44 | 4.6 | 56.6 | -1.14 | 3.7 | 3 | EM |
| HXGARW | 64.5 | 2.61 * | 2.4 | 64.5 | 2.17 * | 2.7 | 4 | LC |
| J8W72F | 60.7 | 0.94 | 2.3 | 62.5 | 1.34 | 2.0 | 4 | LD |
| LTRZ9A | 60.3 | 0.74 | 0.9 | 61.2 | 0.80 | 0.9 | 4 | TC |
| MVVEV7 | 59.2 | 0.26 | 2.6 | 61.4 | 0.87 | 1.8 | 4 | LC |
| NUZWT6 | 59.3 | 0.31 | 1.8 | 60.5 | 0.48 | 2.4 | 4 | TB |
| PEGQWV | 57.6 | -0.45 | 1.8 | 58.5 | -0.33 | 1.8 | 2 | EX |
| QR2PZ3 | 58.4 | -0.12 | 2.1 | 57.5 | -0.76 | 3.3 | 4 | TD |
| QUC8K9 | 121.4 | 28.19 X | 9.3 | 74.5 | 6.36 X | 5.3 | 4 | LC |
| R63NLE | 60.0 | 0.61 | 3.7 | 60.2 | 0.38 | 3.0 | 4 | LD |
| U397CC | 59.1 | 0.21 | 1.2 | 58.9 | -0.16 | 3.0 | 3 | TB |
| UBMK42 | 59.6 | 0.43 | 2.2 | 60.2 | 0.35 | 1.8 | 4 | TM |
| VLHVDT | 61.8 | 1.40 | 1.0 | 60.4 | 0.47 | 1.8 | 4 | EN |
| VMDEFU | 55.0 | -1.63 | 4.8 | 60.0 | 0.28 | 4.6 | 4 | EM |
| XAH2TV | 54.7 | -1.79 | 3.5 | 55.3 | -1.68 | 3.0 | 4 | LC |
| XHVTJT | 55.3 | -1.49 | 1.1 | 60.1 | 0.33 | 1.9 | 4 | TL |
| XL8ZHC | 61.1 | 1.11 | 3.0 | 58.9 | -0.16 | 2.2 | 4 | LD |
| XM8ZKX | 57.3 | -0.61 | 3.4 | 59.5 | 0.10 | 3.1 | 4 | LC |
| ZX22A8 | 57.2 | -0.66 | 1.4 | 57.1 | -0.91 | 1.3 | 4 | EM |

Containerboard Interlaboratory Testing Program
 Analysis 203
Edgewise Compressive Strength by T839, Corrugated board - ECT8
 TAPPI T839



Consensus (All Labs) Results

| | | | |
|--------------|-------|--------------|-------|
| Month Mean | 58.64 | Grand Mean | 59.31 |
| Avg SDr | 2.92 | Avg SDr | 2.47 |
| SD btwn Labs | 2.23 | SD btwn Labs | 2.38 |
| Labs Incl | 35 | Labs Incl | 35 |

Instrument Code List as Reported by the Labs

| | |
|--|--|
| (BU) - Buchel Digital Crush Tester | (CT) - Con-Ten |
| (EM) - Emerson 1200 Series | (EN) - Emerson 2200 |
| (EX) - Emerson (model not specified) | (LC) - L&W Crush Tester 48 |
| (LD) - L&W Crush Tester 248 | (TB) - TMI Monitor/Compression Tester, Model 17-70 |
| (TC) - TMI Monitor/Compression Tester, Model 17-37 | (TD) - TMI Digital Crush Tester, Model 17-09 |
| (TG) - TMI Digital Crush Tester, 17-76 | (TL) - Tech-Lab Systems Compression |
| (TM) - TMI/Hinde & Dausch | (TX) - TMI (model not specified) |

Containerboard Interlaboratory Testing Program
 Analysis 205
 Bursting Strength (Mullen), 42 lb Linerboard - 42D1
 TAPPI Official Test Method T807



| WebCode | Weekly Means | | | | Monthly Results | | | | Cumulative Results | | | | | Inst |
|---------|--------------|---------|---------|---------|-----------------|--------|------|--------|--------------------|--------|------|--------|-----|------|
| | Week 1 | Week 2 | Week 3 | Week 4 | Mean | CPV | SDr | SD Wks | Mean | CPV | SDr | SD Wks | Wks | |
| 2JDDFY | 111.9 | 109.2 | 107.4 | 111.6 | 110.0 | 0.39 | 10.7 | 2.1 | 109.9 | 0.21 | 11.3 | 1.8 | 6 | AH |
| 3TVEBY | 96.7 * | 101.0 | 105.5 | 103.3 | 101.6 | -1.82 | 9.5 | 3.7 | 104.0 | -1.40 | 11.1 | 4.4 | 8 | LA |
| 46PT9B | 112.3 | 105.4 | 112.4 | 109.4 | 109.9 | 0.36 | 11.2 | 3.3 | 110.9 | 0.47 | 10.8 | 2.5 | 8 | LA |
| 4988FH | 113.1 | 108.5 | 117.5 * | 116.2 | 113.8 | 1.40 | 7.5 | 4.0 | 114.4 | 1.41 | 8.8 | 3.6 | 8 | AA |
| 64PALZ | No DATA | 111.9 | 108.8 | No DATA | 110.4 | 0.48 | 7.9 | 2.2 | 110.3 | 0.30 | 9.4 | 1.6 | 3 | AH |
| 7GVKTM | 107.4 L | 107.8 L | 106.4 L | 107.3 | 107.2 | -0.35 | 3.8 | 0.6 L | 104.9 | -1.14 | 6.1 | 2.5 | 8 | LJ |
| 7VR3HK | 107.4 | 107.2 | 111.9 | 112.1 | 109.7 | 0.30 | 10.1 | 2.7 | 110.8 | 0.45 | 10.1 | 3.5 | 8 | LC |
| 7YQDCY | 106.7 | 109.3 | 104.0 | 105.0 | 106.3 | -0.60 | 9.6 | 2.3 | 106.4 | -0.73 | 11.2 | 2.4 | 8 | LC |
| 84EHH9 | 118.5 | 112.7 | 108.5 | 113.7 | 113.3 | 1.27 | 8.3 | 4.1 | 112.2 | 0.82 | 8.2 | 3.2 | 8 | TB |
| 8EZJ3N | 108.5 | 106.9 | 103.6 | 113.9 | 108.2 | -0.08 | 12.0 | 4.3 | 109.9 | 0.19 | 11.2 | 3.7 | 8 | AH |
| 9LFPCZ | 106.4 L | 106.4 L | 107.1 | 106.3 | 106.5 | -0.53 | 10.9 | 0.4 L | 105.8 | -0.91 | 10.1 | 1.2 | 8 | LA |
| 9QALY7 | 102.5 | 106.6 | 102.3 | 106.0 | 104.4 | -1.11 | 9.8 | 2.3 | 105.5 | -0.98 | 9.6 | 2.9 | 8 | LA |
| ABCQ4R | 103.1 | 104.9 | 110.1 | 101.9 | 105.0 | -0.94 | 11.7 | 3.6 | 103.6 | -1.49 | 10.2 | 3.6 | 8 | LC |
| ALTDDR | 113.5 | 108.3 | 110.3 | 112.1 | 111.1 | 0.67 | 12.9 | 2.3 | 109.6 | 0.12 | 12.4 | 3.0 | 8 | LA |
| CB3TKQ | 107.7 | 106.2 | 108.5 | 115.1 | 109.4 | 0.22 | 10.3 | 3.9 | 112.0 | 0.77 | 11.6 | 4.4 | 8 | LA |
| DANPPE | 109.0 | 101.5 | 109.5 | 108.7 | 107.2 | -0.36 | 9.3 | 3.8 | 106.7 | -0.66 | 8.9 | 2.7 | 8 | LJ |
| DTXL7P | 107.9 | 107.1 | 106.1 | 106.8 | 107.0 | -0.41 | 10.1 | 0.7 | 106.4 | -0.73 | 11.9 | 2.0 | 8 | LA |
| EHEYNV | 118.3 | 120.2 * | 126.4 X | 126.2 X | 122.8 | 3.77 X | 6.2 | 4.1 | 123.5 | 3.85 X | 7.0 | 3.1 | 8 | AH |
| EPYRLT | 118.9 | 113.4 | 110.0 | 117.3 | 114.9 | 1.69 | 9.3 | 4.0 | 117.2 | 2.16 * | 10.8 | 3.7 | 8 | LA |
| FC7X3R | 102.6 | 106.4 | 105.0 | 103.4 | 104.4 | -1.11 | 9.6 | 1.7 | 113.2 | 1.07 | 8.2 | 9.5 H | 8 | RE |
| G2M9R7 | 105.6 | 101.7 | 102.7 | 103.9 | 103.5 | -1.34 | 9.6 | 1.7 | 104.2 | -1.34 | 8.8 | 2.0 | 8 | AH |
| GPTWFR | 103.7 | 107.5 | 104.6 | 107.8 | 105.9 | -0.70 | 11.2 | 2.1 | 105.9 | -0.89 | 11.1 | 2.2 | 8 | TB |
| HB6AM7 | 112.1 H | 107.3 H | 112.8 H | 110.9 | 110.8 | 0.59 | 16.3 | 2.4 | 109.4 | 0.07 | 15.5 | 3.0 | 8 | XX |
| HL6Z48 | 103.9 | 100.5 | 102.2 | 111.0 | 104.4 | -1.09 | 9.5 | 4.6 | 104.4 | -1.28 | 9.1 | 3.7 | 8 | AX |
| HP8BCM | 103.9 | 113.0 | 112.9 | 109.8 | 109.9 | 0.36 | 11.1 | 4.3 | 110.1 | 0.25 | 11.4 | 3.7 | 8 | TP |
| HXGARW | 115.8 | 114.0 | 112.1 | 111.9 | 113.5 | 1.30 | 11.1 | 1.8 | 113.8 | 1.24 | 12.0 | 1.4 | 8 | LZ |
| J9XEG8 | 114.8 | 109.4 | 113.2 | 111.1 | 112.1 | 0.95 | 9.3 | 2.4 | 111.4 | 0.60 | 9.5 | 3.5 | 8 | LZ |
| JMVVHM | 113.9 | 103.3 H | 102.9 | 106.9 | 106.8 | -0.47 | 11.6 | 5.1 | 106.2 | -0.80 | 10.2 | 4.0 | 8 | LC |
| KA2QBE | 106.6 | 109.1 | 109.9 L | 109.4 L | 108.8 | 0.06 | 4.8 | 1.4 | 108.3 | -0.22 | 5.1 | 1.4 | 8 | LA |
| KXTLM8 | 104.5 | 107.0 | No DATA | No DATA | 105.8 | -0.73 | 8.5 | 1.8 | 106.0 | -0.85 | 11.3 | 3.0 | 6 | TB |
| L4AJQK | 111.4 | 108.6 | 113.9 | 110.8 | 111.2 | 0.71 | 10.8 | 2.2 | 111.0 | 0.50 | 12.5 | 4.0 | 8 | AX |
| LTRZ9A | 115.5 | 113.5 | 109.0 | 111.5 | 112.4 | 1.02 | 12.4 | 2.8 | 112.1 | 0.79 | 12.7 | 2.6 | 8 | AA |
| N3AHED | 84.7 XL | 112.4 | 111.8 | 111.0 | 105.0 | -0.94 | 6.2 | 13.5 H | 109.4 | 0.08 | 8.0 | 10.4 H | 8 | LC |
| N7TDH7 | 112.5 | 112.4 | 111.3 | 119.0 * | 113.8 | 1.39 | 12.5 | 3.5 | 114.3 | 1.39 | 12.7 | 3.0 | 8 | LJ |
| NUZWT6 | 100.7 | 108.3 | 108.9 | 103.9 | 105.4 | -0.82 | 12.1 | 3.9 | 107.7 | -0.38 | 12.1 | 4.8 | 8 | LA |

Containerboard Interlaboratory Testing Program
 Analysis 205
Bursting Strength (Mullen), 42 lb Linerboard - 42D1
 TAPPI Official Test Method T807



| WebCode | Weekly Means | | | | Monthly Results | | | | Cumulative Results | | | | Inst | |
|---------|--------------|---------|---------|---------|-----------------|--------|------|--------|--------------------|-------|------|--------|------|-----|
| | Week 1 | Week 2 | Week 3 | Week 4 | Mean | CPV | SDr | SD Wks | Mean | CPV | SDr | SD Wks | | Wks |
| PCDWYQ | 103.8 | 106.9 | 102.1 | 103.8 | 104.1 | -1.17 | 7.8 | 2.0 | 105.8 | -0.91 | 8.9 | 3.1 | 8 | LB |
| QEBVNA | 116.1 | 117.1 | 117.5 * | 113.6 | 116.1 | 2.00 * | 11.4 | 1.8 | 114.5 | 1.45 | 12.1 | 2.3 | 8 | LC |
| QUC8K9 | 97.0 * | 111.8 | 105.0 | 104.3 | 104.5 | -1.06 | 8.9 | 6.0 | 107.3 | -0.49 | 10.8 | 5.7 | 8 | LA |
| R63NLE | 107.0 | 105.5 | 102.0 | 102.0 | 104.1 | -1.16 | 7.9 | 2.6 | 104.0 | -1.38 | 7.3 | 3.2 | 8 | LA |
| RDXLB3 | 111.7 | 111.9 L | 105.4 | 104.9 | 108.5 | -0.02 | 8.9 | 3.8 | 108.4 | -0.20 | 9.9 | 3.8 | 8 | LC |
| RVGGPB | 106.9 | 103.9 | 107.7 | 107.2 | 106.4 | -0.56 | 9.6 | 1.7 | 107.0 | -0.58 | 9.6 | 1.9 | 7 | LC |
| TNX3DC | 107.6 | 103.5 | 103.4 | 107.5 | 105.5 | -0.80 | 8.2 | 2.4 | 106.6 | -0.68 | 7.7 | 2.2 | 8 | AH |
| UJ292A | 113.4 | 115.0 | 112.9 | 111.0 | 113.1 | 1.20 | 12.6 | 1.6 | 113.5 | 1.17 | 11.4 | 1.8 | 7 | LA |
| WANYPZ | 108.8 | 111.6 | 103.6 | 104.5 | 107.1 | -0.37 | 10.8 | 3.7 | 107.3 | -0.50 | 11.0 | 3.3 | 5 | LC |
| WJQGZ3 | 105.5 | 107.8 | 115.6 | 110.9 | 110.0 | 0.38 | 11.0 | 4.4 | 111.7 | 0.68 | 11.4 | 5.1 | 8 | LA |
| WYN7GA | 101.7 | 97.7 * | 104.5 | 103.6 | 101.9 | -1.76 | 10.5 | 3.0 | 104.2 | -1.32 | 11.2 | 3.7 | 8 | LC |
| XL8ZHC | 109.4 | 110.5 | 113.9 | 113.0 | 111.7 | 0.84 | 11.0 | 2.1 | 110.4 | 0.33 | 10.6 | 2.7 | 8 | AH |
| XULPJ7 | 119.4 | 113.2 H | 113.2 | 113.3 | 114.8 | 1.65 | 13.2 | 3.1 | 115.9 | 1.82 | 12.4 | 3.0 | 8 | TB |
| Y8AB4R | 121.7 * | 104.7 | 108.4 L | 107.3 L | 110.5 | 0.53 | 6.1 | 7.6 H | 114.9 | 1.55 | 7.1 | 7.2 H | 8 | LA |
| YZAUPE | 116.3 L | 114.7 | 112.5 | 115.8 | 114.8 | 1.66 | 7.2 | 1.7 | 114.6 | 1.47 | 7.7 | 2.1 | 8 | LC |
| ZX22A8 | 104.1 | 104.7 | 104.1 | 104.2 | 104.3 | -1.13 | 8.8 | 0.3 L | 103.6 | -1.50 | 7.8 | 1.5 | 8 | AH |

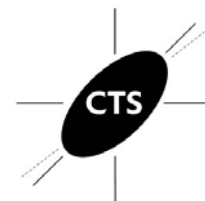
Consensus (All Labs) Results

| | | | | | | | | |
|---------------|--------|--------|--------|--------|--------------|--------|--------------|--------|
| Wk Mean | 109.14 | 108.42 | 108.47 | 109.08 | Month Mean | 108.53 | Grand Mean | 109.15 |
| Avg SDr | 9.82 | 9.99 | 10.54 | 10.34 | Avg SDr | 10.15 | Avg SDr | 10.40 |
| SD btwn Labs | 5.86 | 4.49 | 4.30 | 4.33 | SD btwn Labs | 3.78 | SD btwn Labs | 3.72 |
| Labs Includ | 49 | 51 | 49 | 48 | SD btwn Wks | 3.69 | SD btwn Wks | 3.79 |
| Labs Exclud | 1 | 0 | 1 | 1 | Labs Includ | 50 | Labs Includ | 50 |
| Labs not rcvd | 1 | 0 | 1 | 2 | | | | |

Instrument Code List as Reported by the Labs

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

Containerboard Interlaboratory Testing Program
Analysis 206
Bursting Strength (Mullen), 69 lb Linerboard - 69C2
TAPPI Official Test Method T807



| WebCode | Weekly Means | | | | Monthly Results | | | | Cumulative Results | | | | | Inst |
|---------|--------------|---------|---------|---------|-----------------|---------|------|--------|--------------------|---------|------|--------|-----|------|
| | Week 1 | Week 2 | Week 3 | Week 4 | Mean | CPV | SDr | SD Wks | Mean | CPV | SDr | SD Wks | Wks | |
| 2JDDFY | 152.9 | 153.3 | 148.7 | 162.2 | 154.3 | -0.15 | 11.1 | 5.7 | 156.5 | 0.18 | 11.9 | 5.9 | 7 | AH |
| 3TVEBY | 156.1 | 149.9 | 146.7 | 152.0 | 151.2 | -0.70 | 9.9 | 3.9 | 147.9 | -1.43 | 9.2 | 7.3 | H 8 | LA |
| 46PT9B | 161.4 | 156.6 | 159.2 | 158.1 | 158.8 | 0.66 | 9.5 | 2.0 | 158.7 | 0.61 | 11.6 | 1.7 | 8 | LA |
| 4988FH | 163.0 | 164.9 | 165.4 | 155.5 | 162.2 | 1.26 | 10.8 | 4.6 | 160.6 | 0.96 | 11.3 | 5.0 | 8 | AA |
| 64PALZ | No DATA | 148.7 | 150.2 | No DATA | 149.5 | -1.00 | 8.9 | 1.1 | 149.5 | -1.14 | 8.9 | 1.1 | 2 | AH |
| 7GVKTM | 155.5 | 156.2 | 157.4 | 156.0 | 156.3 | 0.21 | 6.6 | 0.8 | 157.9 | 0.46 | 6.0 | 2.5 | 8 | LJ |
| 7VR3HK | 153.4 | 158.6 | 156.1 | 152.7 | 155.2 | 0.02 | 9.1 | 2.7 | 155.1 | -0.08 | 8.9 | 3.7 | 8 | LC |
| 7YQDCY | 153.1 | 160.5 | 156.3 | 149.5 | 154.9 | -0.05 | 11.4 | 4.7 | 155.0 | -0.10 | 11.0 | 7.6 | H 8 | LA |
| 84EHH9 | 165.0 | 167.9 | 163.6 | 167.2 * | 165.9 | 1.91 | 11.5 | 2.0 | 167.1 | 2.18 * | 10.9 | 2.9 | 8 | TB |
| 8EZJ3N | 143.2 | 152.2 | 149.6 | 154.1 | 149.8 | -0.95 | 11.2 | 4.8 | 150.5 | -0.95 | 11.8 | 3.6 | 8 | AH |
| 9LFPCZ | 164.2 | 157.4 L | 152.3 | 158.6 | 158.1 | 0.53 | 9.0 | 4.9 | 158.3 | 0.54 | 10.2 | 5.6 | 8 | LA |
| 9QALY7 | 150.6 | 151.6 | 161.4 | 153.3 | 154.2 | -0.16 | 12.3 | 4.9 | 155.2 | -0.05 | 11.9 | 3.6 | 8 | LA |
| ABCQ4R | 150.7 | 137.7 * | 147.0 | 145.1 | 145.2 | -1.77 | 11.0 | 5.5 | 147.0 | -1.60 | 10.7 | 4.2 | 8 | LC |
| ALTDDR | 154.2 | 156.9 H | 159.5 | 157.0 | 156.9 | 0.32 | 13.7 | 2.2 | 159.4 | 0.74 | 11.9 | 3.4 | 8 | LA |
| CB3TKQ | 156.9 | 155.7 | 157.8 | 155.7 | 156.5 | 0.25 | 11.4 | 1.0 | 158.1 | 0.50 | 11.0 | 3.3 | 8 | LA |
| DANPPE | 153.8 | 157.2 | 162.9 | 153.4 | 156.8 | 0.30 | 11.9 | 4.4 | 156.8 | 0.25 | 11.9 | 4.4 | 4 | LJ |
| DTXL7P | 157.3 | 157.6 | 153.3 | 154.4 | 155.6 | 0.09 | 13.6 | 2.1 | 153.6 | -0.36 | 11.8 | 5.2 | 8 | LA |
| EHEYNV | 156.1 | 150.4 | 154.9 | 153.3 | 153.7 | -0.26 | 6.8 | 2.5 | 153.9 | -0.30 | 6.7 | 3.6 | 8 | AH |
| EPYRLT | 170.3 * | 165.6 | 169.3 * | 164.0 | 167.3 | 2.16 * | 8.1 | 3.0 | 166.3 | 2.05 * | 9.6 | 3.4 | 8 | LA |
| FC7X3R | 154.4 | 158.2 | 158.6 L | 158.4 | 157.4 | 0.41 | 9.5 | 2.0 | 156.8 | 0.24 | 9.8 | 3.7 | 8 | RE |
| G2M9R7 | 145.9 | 147.3 | 146.2 | 152.2 | 147.9 | -1.28 | 10.1 | 2.9 | 149.4 | -1.15 | 9.1 | 3.2 | 8 | AH |
| GPTWFR | 151.2 | 153.6 | 151.2 | 158.6 | 153.6 | -0.26 | 10.9 | 3.5 | 152.8 | -0.51 | 11.2 | 3.0 | 8 | TB |
| HB6AM7 | 152.1 | 165.2 | 155.0 H | 157.0 | 157.3 | 0.39 | 14.9 | 5.6 | 160.3 | 0.90 | 15.4 | 5.1 | 8 | XX |
| HL6Z48 | 139.4 * | 142.9 | 148.9 | 142.2 * | 143.4 | -2.08 * | 9.0 | 4.0 | 142.2 | -2.51 * | 9.7 | 3.2 | 8 | AX |
| HP8BCM | 150.5 L | 158.2 | 145.5 L | 155.9 | 152.5 | -0.46 | 4.4 | 5.7 | 152.4 | -0.59 | 5.2 | 4.4 | 8 | TP |
| HXGARW | 160.8 | 161.2 | 160.8 | 161.6 | 161.1 | 1.07 | 12.2 | 0.4 L | 159.2 | 0.69 | 12.6 | 2.8 | 8 | LZ |
| J9XEG8 | 158.0 | 158.6 | 159.7 | 160.2 | 159.1 | 0.71 | 12.3 | 1.0 | 157.6 | 0.39 | 12.7 | 2.7 | 8 | LZ |
| JMVVHM | 159.7 | 155.0 | 149.9 | 152.8 | 154.4 | -0.13 | 9.4 | 4.1 | 152.5 | -0.57 | 10.7 | 6.0 | 8 | LC |
| KA2QBE | 172.3 * | 162.1 | 165.2 | 162.5 | 165.6 | 1.85 | 10.5 | 4.7 | 166.1 | 2.01 * | 9.6 | 3.6 | 8 | LA |
| KXTLM8 | 147.8 | 141.5 | No DATA | No DATA | 144.6 | -1.86 | 9.0 | 4.4 | 147.2 | -1.57 | 9.7 | 3.5 | 6 | TB |
| L4AJQK | 159.5 | 160.4 H | 159.3 | 155.6 | 158.7 | 0.63 | 12.1 | 2.1 | 158.7 | 0.60 | 11.6 | 2.5 | 8 | AX |
| LTRZ9A | 149.3 | 155.5 | 155.5 | 152.0 | 153.1 | -0.36 | 13.2 | 3.0 | 154.4 | -0.21 | 11.0 | 3.9 | 8 | AA |
| N3AHED | 146.8 | 147.7 | 152.7 | 150.5 | 149.4 | -1.01 | 11.8 | 2.7 | 150.9 | -0.87 | 11.0 | 3.3 | 8 | LC |
| N7TDH7 | 159.6 | 162.6 | 159.8 | 150.5 | 158.1 | 0.53 | 10.8 | 5.3 | 157.9 | 0.46 | 10.8 | 4.1 | 8 | LJ |
| NUZWT6 | 152.6 | 155.1 | 158.9 | 151.7 | 154.6 | -0.09 | 13.7 | 3.2 | 153.8 | -0.32 | 12.6 | 4.4 | 8 | LA |

Containerboard Interlaboratory Testing Program
 Analysis 206
 Bursting Strength (Mullen), 69 lb Linerboard - 69C2
 TAPPI Official Test Method T807

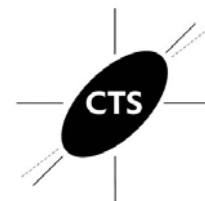


| WebCode | Weekly Means | | | | Monthly Results | | | | Cumulative Results | | | | | Inst |
|---------|--------------|---------|---------|---------|-----------------|--------|------|--------|--------------------|--------|------|--------|-----|------|
| | Week 1 | Week 2 | Week 3 | Week 4 | Mean | CPV | SDr | SD Wks | Mean | CPV | SDr | SD Wks | Wks | |
| PCDWYQ | 149.9 L | 154.3 | 153.5 | 155.3 | 153.2 | -0.33 | 5.8 | 2.3 | 156.1 | 0.12 | 8.3 | 4.6 | 8 | LB |
| QEBVNA | 156.2 | 163.7 | 145.7 | 156.8 | 155.6 | 0.08 | 10.7 | 7.4 | 158.0 | 0.48 | 11.6 | 5.7 | 8 | XX |
| QUC8K9 | 151.6 | 159.5 | 154.9 | 161.5 | 156.9 | 0.31 | 11.6 | 4.5 | 157.2 | 0.32 | 12.5 | 3.5 | 8 | LA |
| R63NLE | 148.0 | 152.8 | 148.9 | 145.3 | 148.8 | -1.12 | 10.4 | 3.1 | 150.5 | -0.95 | 9.6 | 4.6 | 8 | LA |
| RDXLB3 | 149.1 | 140.5 * | 149.4 | 154.3 | 148.3 | -1.20 | 8.0 | 5.7 | 150.7 | -0.90 | 9.2 | 6.3 | 8 | LC |
| RVGGPB | 151.7 | 149.2 | 148.5 | 147.0 | 149.1 | -1.06 | 9.8 | 1.9 | 150.6 | -0.93 | 10.1 | 3.0 | 8 | LC |
| TNX3DC | 153.8 | 156.3 | 154.9 | 156.8 | 155.5 | 0.06 | 10.4 | 1.4 | 155.7 | 0.04 | 9.9 | 2.9 | 8 | AH |
| UJ292A | 155.8 | 158.9 | 154.6 | 153.1 | 155.6 | 0.09 | 12.4 | 2.5 | 155.8 | 0.06 | 12.7 | 2.9 | 7 | LA |
| WANYPZ | 151.9 | 143.4 | 144.9 | 154.4 | 148.7 | -1.15 | 10.9 | 5.3 | 150.9 | -0.87 | 10.4 | 5.5 | 8 | LC |
| WJQGZ3 | 151.5 | 159.4 | 143.4 | 161.1 | 153.8 | -0.22 | 11.6 | 8.1 H | 157.2 | 0.31 | 11.2 | 7.4 H | 8 | LA |
| WYN7GA | 152.0 | 150.3 | 157.0 | 152.1 | 152.9 | -0.40 | 10.8 | 2.9 | 154.4 | -0.22 | 11.5 | 3.2 | 8 | LC |
| XL8ZHC | 157.4 | 163.6 | 155.8 | 165.5 | 160.6 | 0.97 | 11.7 | 4.7 | 154.0 | -0.29 | 11.0 | 7.9 H | 8 | AH |
| XULPJ7 | 168.8 | 168.0 | 174.1 X | 165.3 | 169.0 | 2.47 * | 12.5 | 3.7 | 166.4 | 2.06 * | 13.0 | 3.8 | 8 | TB |
| Y8AB4R | 173.2 * | 164.0 | 160.8 | 162.2 L | 165.1 | 1.76 | 7.9 | 5.6 | 166.9 | 2.15 * | 7.5 | 5.4 | 8 | LA |
| YZAUPE | 153.3 | 149.5 | 145.0 | 152.5 | 150.1 | -0.89 | 8.3 | 3.8 | 151.9 | -0.68 | 8.7 | 5.1 | 8 | LC |
| ZX22A8 | 156.7 | 155.6 | 151.9 | 154.5 | 154.7 | -0.08 | 12.4 | 2.0 | 154.8 | -0.13 | 12.9 | 2.2 | 8 | AH |

| Consensus (All Labs) Results | | | | | | | | | |
|------------------------------|--------|--------|--------|--------|--------------|--------|--------------|--------|--|
| Wk Mean | 155.17 | 155.55 | 154.45 | 155.54 | Month Mean | 155.11 | Grand Mean | 155.50 | |
| Avg SDr | 10.94 | 10.98 | 10.55 | 10.55 | Avg SDr | 10.73 | Avg SDr | 10.74 | |
| SD btwn Labs | 6.93 | 7.05 | 6.18 | 5.35 | SD btwn Labs | 5.64 | SD btwn Labs | 5.29 | |
| Labs Includ | 50 | 51 | 49 | 49 | SD btwn Wks | 3.96 | SD btwn Wks | 4.41 | |
| Labs Excl'd | 0 | 0 | 1 | 0 | Labs Includ | 51 | Labs Includ | 51 | |
| Labs not rcvd | 1 | 0 | 1 | 2 | | | | | |

Instrument Code List as Reported by the Labs

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



| WebCode | Weekly Means | | | | Monthly Results | | | | Cumulative Results | | | | | | | | | | | |
|---------|--------------|---------|---------|---------|-----------------|------|-------|--------|--------------------|------|-------|--------|-------|-------|------|-----|------|----|---|----|
| | Week 1 | Week 2 | Week 3 | Week 4 | Mean | CPV | SDr | SD Wks | Mean | CPV | SDr | SD Wks | Wks | Inst | | | | | | |
| 3TVEBY | 90.8 | 84.8 | 84.7 | 83.8 | L | 86.0 | 0.11 | 3.2 | 3.2 | 85.0 | -0.27 | 3.7 | 3.1 | 8 | LC | | | | | |
| 46PT9B | 86.8 | 83.2 | 82.9 | 85.9 | | 84.7 | -0.20 | 3.8 | 1.9 | 84.5 | -0.39 | 3.8 | 1.6 | 8 | LC | | | | | |
| 4988FH | 82.9 | 79.6 | 81.8 | 80.1 | | 81.1 | -1.03 | 3.4 | 1.5 | 82.3 | -0.91 | 3.6 | 1.8 | 8 | LD | | | | | |
| 6H46R3 | 87.3 | 90.2 | 89.5 | 84.7 | | 87.9 | 0.55 | 4.7 | 2.5 | 86.4 | 0.07 | 4.4 | 2.9 | 8 | TH | | | | | |
| 7GVKTM | 87.9 | 86.5 | 87.5 | 87.7 | | 87.4 | 0.43 | 3.5 | 0.6 | L | 90.7 | 1.11 | 3.1 | 3.9 | 8 | LD | | | | |
| 7VR3HK | 90.0 | 91.9 | 91.8 | 94.3 | * | 92.0 | 1.49 | 4.1 | 1.8 | 93.4 | 1.75 | 4.8 | 4.6 | 8 | TC | | | | | |
| 7YQDCY | 91.2 | H | 92.0 | 82.4 | H | 87.9 | H | 88.4 | 0.65 | 8.0 | 4.4 | 87.1 | 0.25 | 8.2 | 3.3 | 8 | LA | | | |
| 84EHH9 | 94.8 | * | 88.4 | 93.4 | 90.8 | 91.8 | 1.45 | 4.7 | 2.9 | 92.0 | 1.42 | 4.6 | 3.0 | 8 | LX | | | | | |
| 8EZJ3N | 86.0 | 87.4 | 80.2 | 86.3 | H | 85.0 | -0.14 | 5.0 | 3.3 | 91.0 | 1.17 | 4.9 | 9.8 | H | 8 | LC | | | | |
| 9LFPCZ | 82.9 | L | 86.4 | L | 86.0 | 83.7 | 84.7 | -0.19 | 3.4 | 1.7 | 84.7 | -0.34 | 3.7 | 1.4 | 8 | LD | | | | |
| 9QALY7 | 93.1 | 65.7 | XH | 68.7 | XH | 87.0 | 78.6 | -1.60 | 7.9 | 13.5 | H | 82.0 | -0.98 | 7.4 | 13.0 | H | 8 | LC | | |
| 9WHCGY | 87.1 | 88.4 | 86.0 | 86.6 | | 87.0 | 0.33 | 3.5 | 1.0 | 87.0 | 0.22 | 3.9 | 1.4 | 8 | LD | | | | | |
| ABCQ4R | 88.9 | 89.1 | 88.0 | 88.5 | H | 88.6 | 0.71 | 5.6 | 0.5 | L | 89.4 | 0.80 | 5.1 | 2.4 | 8 | LC | | | | |
| BERJUK | 93.0 | 92.6 | 93.3 | 92.5 | | 92.9 | 1.69 | 4.6 | 0.4 | L | 92.0 | 1.42 | 4.1 | 1.1 | 8 | TH | | | | |
| CB3TKQ | 90.1 | 89.8 | 89.9 | 84.7 | | 88.6 | 0.71 | 3.6 | 2.6 | 89.8 | 0.90 | 4.2 | 2.3 | 8 | LD | | | | | |
| DANPPE | 84.6 | 88.6 | 82.1 | 85.4 | | 85.2 | -0.08 | 4.4 | 2.7 | 82.0 | -0.99 | 4.2 | 4.2 | 8 | LD | | | | | |
| DTXL7P | 84.9 | 85.5 | 81.8 | 84.5 | | 84.2 | -0.32 | 3.6 | 1.6 | 84.7 | -0.34 | 3.8 | 1.4 | 8 | LC | | | | | |
| EHEYNV | 93.0 | 92.1 | 93.4 | 92.0 | | 92.6 | 1.63 | 4.1 | 0.7 | L | 93.1 | 1.67 | 4.2 | 2.0 | 8 | LD | | | | |
| EPYRLT | 81.4 | 80.6 | 81.5 | 85.2 | | 82.2 | -0.78 | 3.8 | 2.1 | 82.3 | -0.91 | 3.6 | 2.2 | 8 | LZ | | | | | |
| FC7X3R | 89.7 | 88.8 | 88.1 | 88.1 | L | 88.7 | 0.72 | 2.8 | 0.7 | L | 89.5 | 0.82 | 3.7 | 1.2 | 8 | LZ | | | | |
| G2M9R7 | 87.4 | 88.7 | 85.1 | 89.2 | | 87.6 | 0.48 | 4.8 | 1.8 | 87.6 | 0.35 | 4.6 | 1.8 | 8 | LC | | | | | |
| GPTWFR | 84.6 | 67.2 | X | 88.0 | 66.2 | X | 76.5 | -2.09 | * | 3.9 | 11.4 | H | 76.0 | -2.43 | * | 3.8 | 10.5 | H | 8 | LZ |
| HG8LGG | 80.2 | 80.1 | 80.0 | 81.5 | | 80.5 | -1.18 | 3.7 | 0.7 | L | 79.8 | -1.52 | 3.6 | 1.2 | 8 | EX | | | | |
| HHQ8BT | 81.8 | 84.1 | 82.0 | 84.9 | | 83.2 | -0.54 | 3.6 | 1.6 | 82.5 | -0.86 | 3.7 | 1.3 | 8 | EN | | | | | |
| HL6Z48 | 93.2 | 94.9 | 92.3 | 98.6 | X | 94.8 | 2.13 | * | 4.6 | 2.8 | 93.8 | 1.85 | 4.7 | 2.4 | 8 | LZ | | | | |
| HP8BCM | 81.7 | 85.3 | 84.6 | 86.3 | | 84.5 | -0.24 | 3.8 | 2.0 | 86.3 | 0.06 | 4.3 | 2.5 | 8 | TH | | | | | |
| HUXD47 | 78.9 | 78.0 | * | 83.5 | 72.9 | X | 78.3 | -1.67 | 4.3 | 4.3 | 78.4 | -1.85 | 4.3 | 3.2 | 8 | EM | | | | |
| HXGARW | 82.4 | 87.0 | 85.6 | 84.9 | | 85.0 | -0.13 | 3.4 | 1.9 | 85.3 | -0.20 | 3.3 | 1.4 | 8 | LC | | | | | |
| JGQPPH | 85.5 | 85.8 | 91.2 | 84.9 | L | 86.8 | 0.30 | 3.4 | 2.9 | 85.4 | -0.16 | 3.9 | 2.5 | 8 | LD | | | | | |
| JMVVHM | 82.2 | 86.0 | 85.0 | 85.1 | | 84.6 | -0.23 | 5.1 | 1.7 | 86.1 | 0.01 | 4.8 | 2.3 | 8 | LD | | | | | |
| K27NA3 | 87.7 | No DATA | 91.2 | No DATA | | 89.5 | 0.91 | 4.6 | 2.5 | 91.2 | 1.22 | 3.8 | 2.1 | 5 | MB | | | | | |
| KA2QBE | 86.9 | L | 88.1 | L | 87.9 | 86.9 | L | 87.5 | 0.44 | 1.9 | 0.6 | L | 87.9 | 0.44 | 2.2 | 0.8 | 8 | LZ | | |
| KXTLM8 | 89.1 | 88.8 | No DATA | No DATA | | 89.0 | 0.79 | 4.0 | 0.3 | L | 90.3 | 1.01 | 4.0 | 1.9 | 6 | LC | | | | |
| L4AJQK | 84.9 | H | 88.3 | 78.0 | 87.3 | 84.6 | -0.22 | 5.5 | 4.6 | 86.4 | 0.06 | 4.9 | 3.6 | 8 | LC | | | | | |
| N3AHED | 83.6 | 82.7 | 83.6 | 83.8 | | 83.4 | -0.49 | 4.6 | 0.5 | L | 84.0 | -0.49 | 4.4 | 1.1 | 8 | LC | | | | |

Containerboard Interlaboratory Testing Program
 Analysis 215
 Ring Crush, 42 lb Linerboard - 42D1
 TAPPI Official Test Method T822



| WebCode | Weekly Means | | | | Monthly Results | | | | Cumulative Results | | | | Inst | |
|---------|--------------|---------|---------|---------|-----------------|---------|------|--------|--------------------|-------|-----|--------|------|-----|
| | Week 1 | Week 2 | Week 3 | Week 4 | Mean | CPV | SDr | SD Wks | Mean | CPV | SDr | SD Wks | | Wks |
| N7TDH7 | 79.6 | 87.8 | 81.9 L | 80.5 L | 82.5 | -0.71 | 2.5 | 3.7 | 83.2 | -0.71 | 2.9 | 2.9 | 8 | LC |
| N9WBPR | 76.0 * | 69.2 X | 75.1 * | 81.1 | 75.3 | -2.36 * | 4.3 | 4.8 | 77.8 | -1.99 | 4.7 | 4.2 | 8 | MB |
| PCDWYQ | 87.5 | 84.2 | 87.4 | 86.2 | 86.3 | 0.17 | 3.9 | 1.5 | 85.7 | -0.08 | 4.1 | 2.3 | 8 | LC |
| PN4QBK | 85.1 | 86.3 L | 85.9 | 84.4 | 85.4 | -0.03 | 3.2 | 0.8 | 85.8 | -0.07 | 3.7 | 0.8 | 8 | LD |
| QN47Y6 | 82.4 | 83.2 | 82.2 | 81.6 | 82.3 | -0.74 | 5.0 | 0.6 L | 83.1 | -0.71 | 4.1 | 1.5 | 8 | LD |
| QR2PZ3 | 92.1 L | 93.8 L | 93.5 | 91.8 L | 92.8 | 1.67 | 1.8 | 1.0 | 92.9 | 1.63 | 1.5 | 1.3 | 8 | TD |
| QR2RQ8 | 85.0 | 85.8 | NO DATA | NO DATA | 85.4 | -0.03 | 4.9 | 0.5 L | 85.7 | -0.10 | 4.2 | 0.9 | 4 | EX |
| QUC8K9 | 84.1 | 76.5 *H | 80.2 | 76.7 * | 79.4 | -1.43 | 11.2 | 3.6 | 82.3 | -0.90 | 8.8 | 4.0 | 8 | LC |
| R63NLE | 84.8 | 87.6 | 83.5 | 84.4 | 85.1 | -0.11 | 3.9 | 1.8 | 86.0 | -0.02 | 3.9 | 1.7 | 8 | LD |
| RVGGPB | 87.1 | 91.3 | 96.1 * | 92.0 | 91.6 | 1.40 | 4.7 | 3.7 | 91.0 | 1.19 | 4.7 | 4.5 | 7 | LC |
| VMDEFU | 83.3 | 85.7 L | 87.6 | 86.4 | 85.7 | 0.04 | 3.2 | 1.8 | 87.4 | 0.31 | 3.7 | 2.2 | 8 | EM |
| WYN7GA | 79.1 | 85.1 | 85.9 | 85.7 | 83.9 | -0.37 | 3.7 | 3.2 | 84.3 | -0.42 | 3.5 | 2.2 | 8 | LD |
| X7YEB3 | 86.6 | 49.4 X | 83.8 | 91.6 | 77.9 | -1.77 | 4.4 | 19.3 H | 82.0 | -0.98 | 4.6 | 13.5 H | 8 | XX |
| XL8ZHC | 84.3 | 88.2 | 84.8 | 88.2 | 86.4 | 0.19 | 3.7 | 2.1 | 83.6 | -0.61 | 3.5 | 3.5 | 8 | LD |
| XULPJ7 | 80.8 | 84.3 | 86.4 | 87.3 | 84.7 | -0.20 | 4.3 | 2.9 | 84.2 | -0.46 | 3.8 | 2.6 | 8 | LC |
| Y8AB4R | 89.0 | 92.0 | 89.5 | 86.5 | 89.3 | 0.85 | 4.7 | 2.3 | 89.7 | 0.88 | 4.8 | 2.3 | 8 | LD |
| ZX22A8 | 82.0 | 79.7 | 82.7 | 81.2 | 81.4 | -0.96 | 3.9 | 1.3 | 82.4 | -0.89 | 3.1 | 1.4 | 8 | EM |

| Consensus (All Labs) Results | | | | | | | | | |
|------------------------------|-------|-------|-------|-------|--------------|-------|--------------|-------|--|
| Wk Mean | 85.87 | 86.70 | 85.89 | 86.09 | Month Mean | 85.55 | Grand Mean | 86.09 | |
| Avg SDr | 4.45 | 4.94 | 4.16 | 4.22 | Avg SDr | 4.52 | Avg SDr | 4.38 | |
| SD btwn Labs | 4.24 | 4.11 | 4.52 | 3.59 | SD btwn Labs | 4.33 | SD btwn Labs | 4.17 | |
| Labs Includ | 52 | 47 | 49 | 46 | SD btwn Wks | 4.29 | SD btwn Wks | 4.07 | |
| Labs Exclud | 0 | 4 | 1 | 3 | Labs Includ | 52 | Labs Includ | 52 | |
| Labs not rcvd | 0 | 1 | 2 | 3 | | | | | |

Instrument Code List as Reported by the Labs

- (EM) - Emerson 1200
- (EN) - Emerson 2200
- (EX) - Emerson (model not specified)
- (LA) - L&W Autoline
- (LC) - L & W Crush Tester 48
- (LD) - L&W Crush Tester 248
- (LX) - L & W 506
- (LZ) - L & W Crush Tester (model not specified)
- (MB) - Messmer Buchel K440
- (TC) - TMI Monitor/Compression Tester, Model 17-37
- (TD) - TMI Digital Crush Tester, Model 17-09
- (TH) - TMI Compression Tester, Model 17-76
- (XX) - Instrument make/model not specified by lab



| WebCode | Weekly Means | | | | Monthly Results | | | | Cumulative Results | | | | | Inst |
|---------|--------------|----------|---------|---------|-----------------|--------|------|--------|--------------------|--------|------|--------|-----|------|
| | Week 1 | Week 2 | Week 3 | Week 4 | Mean | CPV | SDr | SD Wks | Mean | CPV | SDr | SD Wks | Wks | |
| 3TVEBY | 135.5 | 132.6 | 118.6 | 120.2 | 126.7 | -0.48 | 5.1 | 8.6 | 127.3 | -0.50 | 5.3 | 6.4 | 8 | LC |
| 46PT9B | 133.3 | 133.9 | 134.9 L | 135.4 | 134.4 | 0.50 | 2.7 | 1.0 | 130.2 | -0.13 | 2.7 | 4.8 | 8 | LC |
| 4988FH | 119.4 | 114.4 | 116.0 | 116.1 | 116.5 | -1.78 | 3.3 | 2.1 | 117.9 | -1.70 | 3.3 | 2.2 | 8 | LD |
| 6H46R3 | 133.2 | 131.9 | 133.5 | 133.8 | 133.1 | 0.34 | 5.2 | 0.8 | 131.7 | 0.06 | 4.4 | 1.8 | 8 | TH |
| 7GVKTM | 133.8 | 133.9 | 133.9 | 134.3 | 133.9 | 0.44 | 3.4 | 0.2 L | 133.6 | 0.31 | 3.1 | 0.9 L | 8 | LD |
| 7VR3HK | 132.0 | 129.9 | 134.8 | 137.4 | 133.5 | 0.39 | 3.4 | 3.3 | 134.1 | 0.37 | 4.2 | 3.2 | 8 | TC |
| 7YQDCY | 129.6 H | 130.1 | 126.7 H | 127.8 | 128.6 | -0.24 | 6.6 | 1.6 | 129.1 | -0.27 | 6.4 | 3.9 | 8 | LA |
| 84EHH9 | 152.5 * | 150.8 * | 151.6 * | 146.4 * | 150.3 | 2.52 * | 4.2 | 2.7 | 149.6 | 2.36 * | 3.9 | 2.2 | 8 | LX |
| 8EZJ3N | 118.3 | 120.6 | 126.4 | 122.9 | 122.1 | -1.07 | 5.7 | 3.4 | 141.8 | 1.36 | 17.0 | 22.8 H | 8 | LC |
| 9LFPCZ | 126.4 L | 124.9 | 123.1 | 125.6 | 125.0 | -0.70 | 3.4 | 1.4 | 125.1 | -0.78 | 3.0 | 2.1 | 8 | LD |
| 9QALY7 | 135.2 | 110.2 *H | 141.9 | 124.2 | 127.9 | -0.33 | 7.2 | 13.9 H | 132.8 | 0.21 | 6.9 | 11.3 H | 8 | LC |
| 9WHCGY | 126.9 | 126.5 L | 124.4 | 124.4 H | 125.6 | -0.62 | 5.0 | 1.3 | 126.3 | -0.62 | 4.2 | 3.7 | 8 | LD |
| ABCQ4R | 147.7 | 132.6 | 143.1 | 145.6 | 142.2 | 1.49 | 5.4 | 6.7 | 139.3 | 1.04 | 7.0 | 6.2 | 8 | LC |
| BERJUK | 132.0 | 131.5 | 130.7 | 131.5 | 131.4 | 0.12 | 3.3 | 0.5 L | 130.9 | -0.04 | 2.8 | 0.8 L | 8 | TH |
| CB3TKQ | 130.8 | 129.5 | 131.4 | 129.1 | 130.2 | -0.03 | 4.0 | 1.1 | 130.4 | -0.10 | 3.8 | 0.8 L | 8 | LD |
| DANPPE | 130.9 | 128.8 | 122.4 | 132.6 | 128.7 | -0.23 | 5.8 | 4.5 | 128.7 | -0.32 | 5.8 | 4.5 | 4 | LD |
| DTXL7P | 121.5 | 120.3 | 131.4 L | 129.7 | 125.7 | -0.60 | 3.3 | 5.6 | 124.4 | -0.86 | 3.1 | 4.4 | 8 | LC |
| EHEYNV | 135.9 | 135.3 | 133.4 | 133.1 | 134.4 | 0.50 | 3.5 | 1.4 | 134.3 | 0.40 | 4.1 | 1.8 | 8 | LD |
| EPYRLT | 129.1 | 134.7 | 122.5 | 126.6 | 128.2 | -0.29 | 4.5 | 5.1 | 128.1 | -0.40 | 5.1 | 4.7 | 8 | LZ |
| FC7X3R | 127.8 L | 133.2 | 130.9 | 128.9 | 130.2 | -0.04 | 3.3 | 2.4 | 134.6 | 0.44 | 3.1 | 5.0 | 8 | LZ |
| G2M9R7 | 127.7 | 125.1 | 126.7 | 132.4 | 127.9 | -0.32 | 3.8 | 3.1 | 127.3 | -0.50 | 3.8 | 3.9 | 8 | LC |
| GPTWFR | 134.3 | 110.1 * | 139.0 H | 105.3 X | 122.2 | -1.06 | 5.3 | 16.9 H | 126.5 | -0.60 | 5.3 | 12.4 H | 8 | LZ |
| HG8LGG | 115.6 | 118.1 | 119.1 | 116.4 | 117.3 | -1.68 | 4.0 | 1.6 | 117.7 | -1.72 | 3.6 | 1.2 | 8 | EX |
| HHQ8BT | 126.3 | 128.7 | 127.1 | 129.8 | 128.0 | -0.32 | 3.8 | 1.6 | 126.9 | -0.55 | 3.5 | 3.9 | 8 | EN |
| HL6Z48 | 140.9 | 138.7 | 139.8 | 136.9 | 139.1 | 1.09 | 5.2 | 1.7 | 141.7 | 1.35 | 4.9 | 4.1 | 8 | LZ |
| HP8BCM | 135.5 | 131.6 L | 130.8 L | 131.2 | 132.2 | 0.23 | 2.6 | 2.2 | 129.3 | -0.24 | 2.9 | 3.7 | 8 | TH |
| HUXD47 | 120.0 H | 119.1 | 125.7 H | 117.1 | 120.5 | -1.27 | 6.3 | 3.7 | 122.1 | -1.17 | 7.0 | 5.3 | 8 | EM |
| HXGARW | 123.3 L | 124.6 | 124.3 | 125.1 | 124.3 | -0.78 | 3.5 | 0.7 L | 126.4 | -0.61 | 3.3 | 2.9 | 8 | LC |
| JGQPPH | 134.5 | 127.3 | 124.5 | 124.9 | 127.8 | -0.34 | 4.0 | 4.6 | 128.0 | -0.41 | 4.3 | 3.6 | 8 | LD |
| JMVVHM | 120.2 | 128.6 | 138.8 | 127.1 H | 128.7 | -0.23 | 5.3 | 7.7 | 130.7 | -0.07 | 5.4 | 6.2 | 8 | LD |
| K27NA3 | 145.7 | No DATA | 139.6 | No DATA | 142.7 | 1.55 | 4.8 | 4.3 | 142.3 | 1.43 | 4.0 | 4.3 | 6 | MB |
| KA2QBE | 136.2 L | 133.5 | 132.4 | 132.0 | 133.5 | 0.39 | 2.0 | 1.9 | 133.6 | 0.31 | 2.4 | 1.3 | 8 | LZ |
| KXTLM8 | 143.9 | 139.6 H | No DATA | No DATA | 141.7 | 1.43 | 10.5 | 3.1 | 141.1 | 1.27 | 7.1 | 3.7 | 6 | LC |
| L4AJQK | 125.0 | 128.4 | 121.8 H | 124.7 | 125.0 | -0.70 | 6.7 | 2.7 | 126.1 | -0.65 | 5.6 | 2.5 | 8 | LC |
| N3AHED | 132.4 | 133.7 | 131.6 | 136.2 | 133.5 | 0.38 | 3.4 | 2.0 | 129.6 | -0.20 | 3.6 | 4.3 | 8 | LC |

Containerboard Interlaboratory Testing Program
 Analysis 216
 Ring Crush, 69 lb Linerboard - 69C2
 TAPPI Official Test Method T822



| WebCode | Weekly Means | | | | Monthly Results | | | | Cumulative Results | | | | | |
|---------|--------------|----------|---------|---------|-----------------|--------|-----|--------|--------------------|--------|-----|--------|-----|------|
| | Week 1 | Week 2 | Week 3 | Week 4 | Mean | CPV | SDr | SD Wks | Mean | CPV | SDr | SD Wks | Wks | Inst |
| N7TDH7 | 116.8 | 124.9 | 125.0 | 118.2 | 121.2 | -1.17 | 3.6 | 4.3 | 125.2 | -0.76 | 3.7 | 6.1 | 8 | LC |
| N9WBPR | 119.2 | 123.8 H | 117.8 H | 116.6 | 119.3 | -1.41 | 6.9 | 3.1 | 118.6 | -1.61 | 6.2 | 3.6 | 8 | MB |
| PCDWYQ | 135.0 | 138.8 | 144.7 | 143.4 | 140.4 | 1.27 | 4.6 | 4.4 | 140.9 | 1.25 | 4.3 | 3.5 | 8 | LC |
| PN4QBK | 125.7 L | 126.0 L | 124.9 | 124.6 | 125.3 | -0.66 | 3.3 | 0.6 L | 125.5 | -0.72 | 3.4 | 1.1 | 8 | LD |
| QN47Y6 | 122.8 | 121.4 | 123.0 | 124.0 | 122.8 | -0.98 | 3.6 | 1.1 | 117.7 | -1.72 | 7.6 | 5.6 | 8 | LD |
| QR2PZ3 | 147.9 L | 150.3 *L | 145.7 L | 147.5 * | 147.8 | 2.21 * | 1.7 | 1.9 | 148.0 | 2.16 * | 1.9 | 1.4 | 8 | TD |
| QR2RQ8 | 145.1 | 146.8 | NO DATA | NO DATA | 145.9 | 1.96 | 4.4 | 1.2 | 145.9 | 1.89 | 4.4 | 1.2 | 2 | EX |
| QUC8K9 | 134.3 H | 128.9 | 131.3 | 132.7 | 131.8 | 0.17 | 6.6 | 2.3 | 133.4 | 0.28 | 7.7 | 2.8 | 8 | LC |
| R63NLE | 127.5 | 126.2 | 128.9 L | 126.0 | 127.2 | -0.42 | 2.9 | 1.3 | 127.0 | -0.53 | 3.6 | 1.7 | 8 | LD |
| RVGGPB | 136.1 | 137.1 | 135.1 | 134.2 | 135.6 | 0.65 | 3.3 | 1.3 | 139.5 | 1.07 | 3.6 | 4.4 | 8 | LC |
| VMDEFU | 137.0 | 135.3 | 136.6 | 136.2 | 136.3 | 0.74 | 3.5 | 0.7 L | 138.7 | 0.97 | 3.7 | 3.3 | 8 | EM |
| WYN7GA | 123.1 | 122.8 L | 134.9 | 127.0 | 126.9 | -0.45 | 3.7 | 5.6 | 128.9 | -0.29 | 4.5 | 4.3 | 8 | LD |
| X7YEB3 | 127.4 | 125.3 | 126.8 H | 143.4 | 130.7 | 0.03 | 6.2 | 8.5 | 130.6 | -0.08 | 6.5 | 8.1 | 6 | XX |
| XL8ZHC | 130.9 | 131.1 | 133.4 | 132.0 | 131.9 | 0.18 | 3.4 | 1.1 | 131.3 | 0.02 | 3.9 | 3.5 | 8 | LD |
| XULPJ7 | 127.9 | 129.2 | 129.9 | 129.9 | 129.2 | -0.16 | 4.2 | 0.9 | 131.9 | 0.09 | 4.2 | 3.9 | 8 | LC |
| Y8AB4R | 138.9 | 147.0 | 143.8 | 142.4 | 143.0 | 1.59 | 3.7 | 3.4 | 142.4 | 1.44 | 3.7 | 2.4 | 8 | LD |
| ZX22A8 | 117.4 | 118.2 | 114.5 | 114.6 | 116.2 | -1.82 | 3.8 | 1.9 | 116.1 | -1.93 | 3.2 | 1.3 | 8 | EM |

| Consensus (All Labs) Results | | | | | | | | | |
|------------------------------|--------|--------|--------|--------|--------------|--------|--------------|--------|--|
| Wk Mean | 130.88 | 129.52 | 130.58 | 129.83 | Month Mean | 130.47 | Grand Mean | 131.17 | |
| Avg SDr | 4.35 | 4.95 | 4.88 | 3.99 | Avg SDr | 4.66 | Avg SDr | 5.16 | |
| SD btwn Labs | 8.60 | 8.76 | 8.21 | 8.19 | SD btwn Labs | 7.87 | SD btwn Labs | 7.81 | |
| Labs Includ | 52 | 51 | 50 | 48 | SD btwn Wks | 4.54 | SD btwn Wks | 5.40 | |
| Labs Exclud | 0 | 0 | 0 | 1 | Labs Includ | 52 | Labs Includ | 52 | |
| Labs not rcvd | 0 | 1 | 2 | 3 | | | | | |

Instrument Code List as Reported by the Labs

- (EM) - Emerson 1200
- (EN) - Emerson 2200
- (EX) - Emerson (model not specified)
- (LA) - L&W Autoline
- (LC) - L & W Crush Tester 48
- (LD) - L&W Crush Tester 248
- (LX) - L & W 506
- (LZ) - L & W Crush Tester (model not specified)
- (MB) - Messmer Buchel K440
- (TC) - TMI Monitor/Compression Tester, Model 17-37
- (TD) - TMI Digital Crush Tester, Model 17-09
- (TH) - TMI Compression Tester, Model 17-76
- (XX) - Instrument make/model not specified by lab

Containerboard Interlaboratory Testing Program

Analysis 223

STFI, 42 lb Linerboard - 42D1

TAPPI Provisional Test Method T826



| WebCode | Weekly Means | | | | Monthly Results | | | | Cumulative Results | | | | | Inst |
|---------|--------------|---------|--------|---------|-----------------|-------|-----|--------|--------------------|---------|-----|--------|-----|------|
| | Week 1 | Week 2 | Week 3 | Week 4 | Mean | CPV | SDr | SD Wks | Mean | CPV | SDr | SD Wks | Wks | |
| 2JDDFY | 23.2 | 23.2 | 21.5 | 23.1 | 22.8 | 0.65 | 2.0 | 0.8 | 23.4 | 1.10 | 2.1 | 1.2 | 6 | LU |
| 3TVEBY | 22.8 | 22.3 | 20.8 | 20.8 | 21.7 | -0.20 | 2.4 | 1.0 | 21.5 | -0.49 | 2.2 | 1.4 | 8 | LY |
| 46PT9B | 21.6 | 20.0 | 21.1 | 21.1 | 21.0 | -0.81 | 1.8 | 0.7 | 21.2 | -0.78 | 1.8 | 0.6 | 8 | LA |
| 4988FH | 19.8 | 19.3 * | 19.7 | 20.1 L | 19.7 | -1.79 | 1.5 | 0.3 | 20.1 | -1.67 | 1.6 | 0.6 | 8 | LW |
| 4ZTWEX | 21.3 | 21.3 | 21.2 | 22.2 | 21.5 | -0.35 | 1.8 | 0.5 | 21.5 | -0.51 | 1.8 | 0.5 | 8 | LY |
| 64PALZ | No DATA | 24.3 | 21.7 L | No DATA | 23.0 | 0.87 | 1.5 | 1.8 H | 22.3 | 0.14 | 1.4 | 1.8 | 3 | LU |
| 6H46R3 | 22.4 | 23.4 | 24.3 | 25.0 | 23.8 | 1.47 | 2.3 | 1.1 | 23.5 | 1.12 | 2.1 | 0.8 | 8 | XX |
| 7VR3HK | 21.7 L | 22.9 L | 22.8 L | 22.8 | 22.5 | 0.48 | 0.9 | 0.5 | 22.7 | 0.50 | 0.7 | 0.7 | 8 | LA |
| 7YQDCY | 23.3 L | 21.6 L | 22.7 L | 22.1 L | 22.4 | 0.37 | 0.5 | 0.7 | 21.8 | -0.24 | 0.5 | 1.1 | 8 | LA |
| 8EZJ3N | 22.3 | 23.2 | 23.7 | 22.1 | 22.8 | 0.69 | 0.9 | 0.8 | 22.6 | 0.42 | 0.9 | 0.6 | 8 | LY |
| 9QALY7 | 22.7 L | 21.7 L | 20.6 L | 17.8 *L | 20.7 | -1.02 | 0.5 | 2.1 H | 23.6 | 1.23 | 1.4 | 6.7 H | 8 | LW |
| 9WHCGY | 21.2 | 21.0 | 21.4 | 21.1 | 21.2 | -0.62 | 1.8 | 0.2 | 20.9 | -0.98 | 1.9 | 0.3 | 8 | LY |
| ABCQ4R | 22.3 | 22.0 L | 23.1 L | 21.3 L | 22.2 | 0.17 | 1.2 | 0.7 | 22.8 | 0.59 | 0.9 | 1.1 | 8 | LA |
| BAU3F6 | 21.0 L | 19.9 L | 19.5 | 18.4 *L | 19.7 | -1.82 | 0.6 | 1.1 | 22.3 | 0.16 | 1.0 | 7.4 H | 8 | LW |
| CB3TKQ | 23.1 | 22.3 | 22.5 | 22.4 | 22.6 | 0.49 | 1.6 | 0.4 | 22.6 | 0.43 | 1.8 | 0.3 | 8 | XX |
| DANPPE | 22.9 | 22.2 | 19.9 | 22.0 | 21.8 | -0.16 | 2.0 | 1.3 | 21.6 | -0.42 | 2.0 | 1.2 | 8 | LU |
| DTXL7P | 21.4 | 21.7 | 21.0 | 20.8 | 21.2 | -0.57 | 1.4 | 0.4 | 21.4 | -0.60 | 1.4 | 0.4 | 8 | LW |
| EPYRLT | 20.0 | 21.3 | 20.2 | 21.2 | 20.7 | -1.05 | 1.9 | 0.7 | 20.7 | -1.15 | 1.8 | 0.5 | 8 | LW |
| F93UYN | 21.5 | 21.3 | 21.0 | 21.2 | 21.2 | -0.57 | 1.5 | 0.2 | 21.3 | -0.64 | 1.4 | 0.3 L | 8 | LW |
| G2M9R7 | 22.1 | 22.1 | 22.2 | 21.6 | 22.0 | 0.02 | 2.1 | 0.3 | 21.9 | -0.14 | 2.0 | 0.3 | 8 | LU |
| GPTWFR | 20.3 | 20.5 | 20.5 | 21.5 | 20.7 | -1.00 | 1.7 | 0.6 | 21.0 | -0.94 | 1.8 | 0.7 | 8 | LZ |
| HHQ8BT | 20.3 | 20.4 | 20.3 | 20.6 | 20.4 | -1.24 | 1.9 | 0.1 L | 20.4 | -1.45 | 1.8 | 0.4 | 8 | LU |
| HP8BCM | 22.8 | 22.7 | 21.5 | 23.3 | 22.6 | 0.52 | 1.1 | 0.8 | 22.3 | 0.16 | 1.3 | 0.7 | 8 | TT |
| HXGARW | 21.2 | 20.8 | 21.0 | 21.9 | 21.2 | -0.58 | 1.9 | 0.5 | 21.5 | -0.49 | 1.8 | 0.6 | 8 | LW |
| J9XEG8 | 23.6 | 23.4 | 23.1 | 22.8 | 23.2 | 1.03 | 2.2 | 0.3 | 23.4 | 1.03 | 2.0 | 0.5 | 8 | LZ |
| JGQPPH | 20.1 | 20.9 | 19.6 | 18.9 | 19.9 | -1.69 | 2.1 | 0.9 | 20.1 | -1.67 | 2.1 | 0.6 | 8 | LY |
| JMVVHM | 20.0 | 22.5 | 22.1 | 21.8 | 21.6 | -0.29 | 1.9 | 1.1 | 21.8 | -0.22 | 1.9 | 0.9 | 8 | LZ |
| K27NA3 | 21.7 L | No DATA | 20.7 L | No DATA | 21.2 | -0.62 | 0.1 | 0.7 | 21.7 | -0.31 | 0.1 | 0.8 | 5 | LA |
| L4AJQK | 19.5 | 20.8 | 19.4 | 19.9 | 19.9 | -1.67 | 1.8 | 0.7 | 19.4 | -2.27 * | 1.6 | 0.9 | 8 | XX |
| N3AHED | 20.3 L | 21.4 L | 22.1 L | 21.9 L | 21.4 | -0.43 | 0.3 | 0.8 | 21.8 | -0.25 | 0.4 | 0.9 | 8 | LA |
| N9WBPR | 24.0 L | 22.4 L | 22.4 L | 21.8 L | 22.7 | 0.59 | 0.5 | 0.9 | 24.0 | 1.60 | 0.6 | 1.7 | 8 | BK |
| NUZWT6 | 20.9 | 20.9 | 21.1 | 21.4 | 21.1 | -0.71 | 1.6 | 0.3 | 21.0 | -0.92 | 1.8 | 0.3 L | 7 | LY |
| PCDWYQ | 23.0 | 23.0 | 23.0 | 22.8 | 22.9 | 0.80 | 1.8 | 0.1 L | 22.8 | 0.61 | 1.8 | 0.2 L | 8 | LU |
| QEBVNA | 22.8 | 21.2 | 22.4 | 23.0 | 22.4 | 0.33 | 1.5 | 0.8 | 22.5 | 0.32 | 1.5 | 0.8 | 8 | XX |
| QN47Y6 | 21.9 | 22.2 | 21.9 | 21.5 | 21.9 | -0.05 | 2.0 | 0.3 | 21.5 | -0.48 | 1.9 | 0.5 | 8 | LY |



| WebCode | Weekly Means | | | | Monthly Results | | | | Cumulative Results | | | | Inst | |
|---------|--------------|---------|---------|---------|-----------------|--------|-----|--------|--------------------|--------|-----|--------|------|-----|
| | Week 1 | Week 2 | Week 3 | Week 4 | Mean | CPV | SDr | SD Wks | Mean | CPV | SDr | SD Wks | | Wks |
| QR2RQ8 | 26.1 *L | 25.5 *L | No DATA | No DATA | 25.8 | 3.12 X | 0.0 | 0.4 | 26.3 | 3.43 X | 0.0 | 0.6 | 4 | LZ |
| QUC8K9 | 21.7 | 21.6 | 21.8 | 22.0 | 21.8 | -0.14 | 1.8 | 0.2 | 22.2 | 0.08 | 1.6 | 0.6 | 8 | LU |
| R63NLE | 21.3 | 21.2 | 22.1 | 22.7 | 21.8 | -0.10 | 1.6 | 0.7 | 21.6 | -0.40 | 1.3 | 0.6 | 8 | BK |
| RDXLB3 | 21.0 L | 21.0 L | 20.6 L | 21.9 L | 21.1 | -0.67 | 0.3 | 0.6 | 20.6 | -1.25 | 0.3 | 0.8 | 8 | LA |
| RVGGPB | 24.6 L | 24.2 L | 24.4 L | 22.7 L | 24.0 | 1.65 | 0.0 | 0.8 | 24.3 | 1.82 | 0.0 | 0.7 | 7 | LA |
| TDVDKU | 18.4 *L | 19.3 *L | 20.6 L | 23.0 L | 20.3 | -1.31 | 0.0 | 2.0 H | 21.3 | -0.66 | 0.0 | 1.7 | 8 | TS |
| TNX3DC | 23.8 | 22.5 | 22.4 | 23.3 | 23.0 | 0.86 | 1.0 | 0.7 | 23.0 | 0.77 | 1.2 | 0.6 | 8 | TT |
| UJ292A | 23.5 | 22.2 | 23.4 | 24.3 | 23.4 | 1.14 | 2.1 | 0.9 | 23.6 | 1.26 | 2.2 | 0.8 | 7 | LW |
| WANYPZ | 23.3 | 26.6 X | 25.1 * | 24.6 | 24.9 | 2.38 * | 1.7 | 1.3 | 24.6 | 2.08 * | 1.8 | 1.3 | 5 | LA |
| WJQGZ3 | 23.8 | 22.9 | 22.6 | 24.3 | 23.4 | 1.19 | 1.7 | 0.8 | 23.0 | 0.76 | 1.6 | 0.8 | 8 | LU |
| WYN7GA | 20.8 | 22.9 | 22.0 | 20.7 | 21.6 | -0.28 | 1.6 | 1.1 | 21.7 | -0.32 | 2.2 | 0.9 | 8 | LA |
| X7YEB3 | 21.7 L | 23.4 L | 23.6 L | 20.9 L | 22.4 | 0.35 | 0.1 | 1.3 | 26.4 | 3.59 X | 0.1 | 9.1 H | 8 | XX |
| XL8ZHC | 22.5 | 21.3 | 21.5 | 20.7 | 21.5 | -0.37 | 1.8 | 0.8 | 21.3 | -0.66 | 1.8 | 0.6 | 8 | LU |
| XULPJ7 | 21.6 | 23.6 | 21.7 | 22.5 | 22.4 | 0.33 | 1.8 | 0.9 | 22.9 | 0.68 | 1.9 | 1.0 | 8 | LW |
| YWP2FX | 23.7 L | 23.1 L | 23.7 L | 24.5 L | 23.8 | 1.46 | 0.0 | 0.6 | 23.1 | 0.85 | 0.0 | 1.0 | 8 | LU |
| YZAUPE | 24.6 | 25.0 * | 24.9 * | 24.6 | 24.8 | 2.29 * | 2.1 | 0.2 | 24.8 | 2.23 * | 2.1 | 0.7 | 8 | LA |

Consensus (All Labs) Results

| | | | | | | | | |
|---------------|-------|-------|-------|-------|--------------|-------|--------------|-------|
| Wk Mean | 22.03 | 22.03 | 21.85 | 21.94 | Month Mean | 21.95 | Grand Mean | 22.10 |
| Avg SDr | 1.56 | 1.64 | 1.49 | 1.66 | Avg SDr | 1.58 | Avg SDr | 1.60 |
| SD btwn Labs | 1.51 | 1.35 | 1.40 | 1.54 | SD btwn Labs | 1.23 | SD btwn Labs | 1.21 |
| Labs Includ | 50 | 49 | 50 | 48 | SD btwn Wks | 0.87 | SD btwn Wks | 1.66 |
| Labs Exclud | 0 | 1 | 0 | 0 | Labs Includ | 50 | Labs Includ | 49 |
| Labs not rcvd | 1 | 1 | 1 | 3 | | | | |

Instrument Code List as Reported by the Labs

(BK) - Buchel Strip Compression Tester BK-155

(LU) - L & W 52 without moisture correction(was 53)

(LY) - L & W 152 without moisture correction

(TS) - TMI Monitor/STFI Compression Tester, 17-33

(XX) - Instrument make/model not specified by lab

(LA) - L & W Autoline

(LW) - L & W 53 with moisture correction (was 53M)

(LZ) - L & W (model not specified)

(TT) - TMI Short Span Compression, 17-34 (MB K455)

Containerboard Interlaboratory Testing Program

Analysis 224

STFI, 69 lb Linerboard - 69C2

TAPPI Provisional Test Method T826



| WebCode | Weekly Means | | | | Monthly Results | | | | Cumulative Results | | | | | |
|---------|--------------|---------|--------|---------|-----------------|---------|-----|--------|--------------------|---------|-----|--------|-----|------|
| | Week 1 | Week 2 | Week 3 | Week 4 | Mean | CPV | SDr | SD Wks | Mean | CPV | SDr | SD Wks | Wks | Inst |
| 2JDDFY | 35.4 | 37.6 | 34.7 | 34.3 | 35.5 | 1.10 | 1.9 | 1.5 | 34.5 | 0.65 | 1.7 | 1.7 | 8 | LU |
| 3TVEBY | 35.0 | 33.4 | 31.1 | 32.5 | 33.0 | -0.05 | 1.9 | 1.6 | 32.8 | -0.12 | 1.9 | 1.2 | 8 | LY |
| 46PT9B | 30.8 | 31.7 | 29.8 | 30.7 | 30.8 | -1.07 | 1.6 | 0.8 | 31.4 | -0.73 | 1.8 | 0.9 | 8 | LA |
| 4988FH | 31.3 | 28.6 | 29.3 | 29.6 | 29.7 | -1.55 | 1.8 | 1.1 | 30.2 | -1.28 | 1.8 | 1.0 | 8 | LW |
| 4ZTWEX | 31.3 | 31.5 | 31.7 | 31.9 | 31.6 | -0.68 | 1.4 | 0.2 | 32.1 | -0.44 | 1.5 | 0.6 | 8 | LY |
| 64PALZ | No DATA | 33.4 | 36.3 | No DATA | 34.8 | 0.78 | 1.8 | 2.1 | 34.8 | 0.80 | 1.8 | 2.1 | 2 | LU |
| 6H46R3 | 33.0 | 33.0 | 33.9 | 34.0 | 33.5 | 0.16 | 1.9 | 0.6 | 34.1 | 0.49 | 1.9 | 0.8 | 8 | XX |
| 7VR3HK | 32.1 L | 34.7 L | 32.8 L | 34.2 | 33.4 | 0.15 | 1.1 | 1.2 | 32.6 | -0.18 | 0.9 | 1.3 | 8 | LA |
| 7YQDCY | 33.1 L | 31.7 L | 32.0 L | No DATA | 32.3 | -0.38 | 0.6 | 0.8 | 32.4 | -0.27 | 0.6 | 1.2 | 7 | LA |
| 8EZJ3N | 35.6 | 35.2 | 36.3 | 34.9 | 35.5 | 1.08 | 1.3 | 0.6 | 36.2 | 1.43 | 1.4 | 1.0 | 8 | LY |
| 9QALY7 | 37.1 | 36.5 | 35.1 | 26.8 * | 33.9 | 0.35 | 1.9 | 4.8 H | 34.3 | 0.58 | 2.0 | 3.2 H | 8 | LW |
| 9WHCGY | 31.1 | 31.4 | 31.6 | 31.2 | 31.3 | -0.81 | 1.8 | 0.2 L | 31.2 | -0.80 | 1.6 | 0.4 | 8 | LY |
| ABCQ4R | 33.9 L | 33.0 L | 31.6 L | 32.8 L | 32.8 | -0.14 | 0.6 | 1.0 | 34.0 | 0.43 | 0.7 | 1.5 | 8 | LA |
| BAU3F6 | 33.4 | 34.7 | 32.5 | 29.3 | 32.5 | -0.28 | 2.1 | 2.3 | 31.9 | -0.50 | 1.9 | 1.9 | 8 | LW |
| CB3TKQ | 34.2 | 32.3 | 33.9 | 35.0 | 33.8 | 0.33 | 1.8 | 1.1 | 33.6 | 0.27 | 1.8 | 0.8 | 8 | XX |
| DANPPE | 35.3 | 34.3 | 30.6 | 34.3 | 33.6 | 0.23 | 1.7 | 2.1 | 33.6 | 0.26 | 1.7 | 2.1 | 4 | LU |
| DTXL7P | 30.8 | 31.1 | 31.1 | 31.8 | 31.2 | -0.87 | 1.4 | 0.5 | 30.6 | -1.07 | 1.3 | 1.0 | 8 | LW |
| EPYRLT | 31.8 | 31.9 | 31.4 | 33.1 | 32.0 | -0.49 | 1.9 | 0.7 | 32.3 | -0.33 | 1.9 | 0.8 | 8 | LW |
| F93UYN | 31.4 | 31.8 | 31.3 | 31.0 | 31.4 | -0.78 | 1.5 | 0.3 | 30.9 | -0.96 | 1.4 | 0.9 | 8 | LW |
| G2M9R7 | 32.0 | 30.8 | 30.6 | 31.3 | 31.1 | -0.89 | 1.6 | 0.6 | 31.3 | -0.78 | 1.6 | 0.5 | 8 | LU |
| GPTWFR | 30.1 | 31.5 | 31.0 | 31.1 | 30.9 | -1.00 | 1.6 | 0.6 | 30.7 | -1.05 | 1.6 | 0.6 | 8 | LZ |
| HHQ8BT | 29.8 | 30.0 | 28.9 | 29.3 | 29.5 | -1.65 | 1.3 | 0.5 | 30.1 | -1.30 | 1.5 | 1.0 | 8 | LU |
| HP8BCM | 32.8 | 32.9 | 32.6 | 32.7 | 32.8 | -0.16 | 1.2 | 0.1 L | 32.7 | -0.16 | 1.2 | 0.3 L | 8 | TT |
| HXGARW | 31.2 | 31.9 | 32.5 | 31.2 | 31.7 | -0.65 | 1.4 | 0.6 | 32.0 | -0.46 | 1.4 | 0.7 | 8 | LW |
| J9XEG8 | 35.4 | 36.3 | 33.7 | 34.7 | 35.0 | 0.87 | 2.3 | 1.1 | 35.0 | 0.90 | 2.2 | 0.8 | 8 | LZ |
| JGQPPH | 30.4 | 32.4 | 31.7 | 31.0 | 31.4 | -0.79 | 1.8 | 0.9 | 31.4 | -0.74 | 1.7 | 0.7 | 8 | LY |
| JMVVHM | 30.1 | 33.7 | 33.2 | 32.4 | 32.3 | -0.35 | 1.7 | 1.6 | 33.4 | 0.16 | 1.9 | 1.6 | 8 | LZ |
| K27NA3 | 34.3 L | No DATA | 33.7 L | No DATA | 34.0 | 0.39 | 0.1 | 0.4 | 33.7 | 0.29 | 0.1 | 0.8 | 6 | LA |
| L4AJQK | 25.5 X | 26.0 * | 27.1 * | 27.4 * | 26.5 | -2.99 X | 1.5 | 0.9 | 27.6 | -2.43 * | 1.6 | 1.3 | 8 | XX |
| N3AHED | 30.5 L | 30.7 L | 28.8 L | 30.3 L | 30.1 | -1.38 | 0.5 | 0.9 | 30.9 | -0.93 | 0.5 | 1.2 | 8 | LA |
| N9WBPR | 38.1 L | 35.7 L | 37.5 L | 34.7 L | 36.5 | 1.54 | 0.7 | 1.6 | 36.5 | 1.54 | 0.7 | 1.0 | 8 | BK |
| NUZWT6 | 30.3 | 29.6 | 30.5 | 31.0 | 30.4 | -1.25 | 1.5 | 0.6 | 30.6 | -1.09 | 1.6 | 0.6 | 8 | LU |
| PCDWYQ | 34.0 | 33.9 | 34.0 | 34.9 | 34.2 | 0.48 | 1.5 | 0.5 | 34.5 | 0.66 | 1.6 | 0.5 | 8 | LU |
| QEBVNA | 34.4 | 35.1 | 33.9 | 35.0 | 34.6 | 0.68 | 1.7 | 0.6 | 34.1 | 0.47 | 1.6 | 0.9 | 8 | LU |
| QN47Y6 | 31.2 | 31.4 | 31.5 | 31.7 | 31.4 | -0.76 | 1.5 | 0.2 L | 31.4 | -0.75 | 1.5 | 0.4 | 8 | LY |



| WebCode | Weekly Means | | | | Monthly Results | | | | Cumulative Results | | | | Inst | |
|---------|--------------|--------|---------|---------|-----------------|--------|-----|--------|--------------------|--------|-----|--------|------|-----|
| | Week 1 | Week 2 | Week 3 | Week 4 | Mean | CPV | SDr | SD Wks | Mean | CPV | SDr | SD Wks | | Wks |
| QR2RQ8 | 37.2 L | 36.9 L | No DATA | No DATA | 37.1 | 1.79 | 0.0 | 0.3 | 37.1 | 1.79 | 0.0 | 0.3 L | 2 | LZ |
| QUC8K9 | 33.3 | 33.9 | 33.4 | 34.8 | 33.9 | 0.35 | 2.0 | 0.7 | 33.6 | 0.26 | 1.8 | 0.8 | 8 | LU |
| R63NLE | 31.8 | 31.5 | 30.8 | 31.7 | 31.5 | -0.75 | 1.2 | 0.4 | 31.3 | -0.79 | 1.3 | 0.7 | 8 | BK |
| RDXLB3 | 29.4 L | 30.1 L | 30.2 L | 29.8 L | 29.9 | -1.48 | 0.4 | 0.4 | 30.0 | -1.37 | 0.4 | 0.4 | 8 | LA |
| RVGGPB | 36.8 L | 35.2 L | 36.7 L | 34.8 L | 35.9 | 1.26 | 0.0 | 1.0 | 35.8 | 1.24 | 0.0 | 0.7 | 8 | LA |
| TDVDKU | 31.2 L | 32.9 L | 34.3 L | 36.0 L | 33.6 | 0.23 | 0.0 | 2.0 | 33.4 | 0.15 | 0.0 | 1.4 | 8 | TS |
| TNX3DC | 34.1 | 32.6 | 32.8 | 32.8 | 33.1 | -0.03 | 1.1 | 0.7 | 33.0 | -0.01 | 1.2 | 0.5 | 8 | TT |
| UJ292A | 35.1 | 36.0 | 36.5 | 36.8 | 36.1 | 1.36 | 2.2 | 0.8 | 35.8 | 1.24 | 2.1 | 0.7 | 7 | LW |
| WANYPZ | 38.0 | 39.9 * | 39.4 * | 37.8 * | 38.8 | 2.57 * | 1.9 | 1.0 | 36.7 | 1.63 | 1.8 | 2.3 | 8 | LA |
| WJQGZ3 | 37.2 | 37.1 | 35.4 | 36.7 | 36.6 | 1.59 | 1.8 | 0.8 | 35.8 | 1.22 | 1.6 | 1.2 | 8 | LU |
| WYN7GA | 28.8 | 31.0 | 31.8 L | 32.9 | 31.1 | -0.91 | 1.7 | 1.8 | 31.0 | -0.90 | 1.5 | 1.4 | 8 | LA |
| X7YEB3 | 34.5 L | 35.6 L | 34.0 L | 34.8 L | 34.7 | 0.74 | 0.1 | 0.6 | 38.2 | 2.30 * | 0.7 | 10.4 H | 8 | XX |
| XL8ZHC | 31.1 | 31.0 | 32.2 | 31.1 | 31.4 | -0.80 | 1.8 | 0.6 | 31.5 | -0.67 | 1.9 | 0.5 | 8 | LU |
| XULPJ7 | 31.2 | 30.8 | 33.9 | 32.3 | 32.1 | -0.48 | 1.8 | 1.4 | 32.2 | -0.39 | 1.6 | 1.1 | 8 | LW |
| YWP2FX | 33.9 L | 33.4 L | 34.1 L | 34.0 L | 33.9 | 0.34 | 0.0 | 0.3 | 32.4 | -0.27 | 0.0 | 1.8 | 8 | LU |
| YZAUPE | 37.4 | 37.7 | 38.1 * | 37.6 | 37.7 | 2.08 * | 1.7 | 0.3 | 37.5 | 2.01 * | 1.8 | 0.3 L | 8 | LA |

Consensus (All Labs) Results

| | | | | | | | | |
|---------------|-------|-------|-------|-------|--------------|-------|--------------|-------|
| Wk Mean | 33.10 | 33.10 | 32.83 | 32.77 | Month Mean | 33.11 | Grand Mean | 33.04 |
| Avg SDr | 1.53 | 1.50 | 1.59 | 1.58 | Avg SDr | 1.54 | Avg SDr | 1.52 |
| SD btwn Labs | 2.51 | 2.61 | 2.51 | 2.49 | SD btwn Labs | 2.20 | SD btwn Labs | 2.24 |
| Labs Includ | 49 | 50 | 50 | 47 | SD btwn Wks | 1.22 | SD btwn Wks | 1.86 |
| Labs Exclud | 1 | 0 | 0 | 0 | Labs Includ | 50 | Labs Includ | 51 |
| Labs not rcvd | 1 | 1 | 1 | 4 | | | | |

Instrument Code List as Reported by the Labs

- (BK) - Buchel Strip Compression Tester BK-155
- (LU) - L & W 52 without moisture correction (was 53)
- (LY) - L & W 152 with moisture correction
- (TS) - TMI Monitor/STFI Compression Tester, 17-33
- (XX) - Instrument make/model not specified by lab

- (LA) - L & W Autoline
- (LW) - L & W 53 with moisture correction (was 53M)
- (LZ) - L & W (model not specified)
- (TT) - TMI Short Span Compression, 17-34 (MB K455)

Containerboard Interlaboratory Testing Program
 Analysis 228
Roughness - Stylus Method, 69 lb Linerboard - 69C
 TAPPI Provisional Test Method T575



| WebCode | Monthly Results | | | Cumulative Results | | | | |
|---------|-----------------|--------|------|--------------------|---------|------|--------|------|
| | Mean | CPV | SDr | Mean | CPV | SDr | Months | Inst |
| 2R9GJW | 143.3 | 0.65 | 19.2 | 132.8 | -0.38 | 14.0 | 3 | EV |
| 8EZJ3N | 105.1 | -1.92 | 8.3 | 98.9 | -3.45 X | 8.7 | 4 | EV |
| 9QALY7 | 145.9 | 0.83 | 10.2 | 133.9 | -0.28 | 7.4 | 4 | EV |
| ABCQ4R | 120.2 | -0.90 | 20.5 | 145.2 | 0.74 | 18.1 | 4 | LA |
| DTXL7P | 147.8 | 0.96 | 11.5 | 147.7 | 0.97 | 11.7 | 4 | EV |
| EPYRLT | 114.2 | -1.30 | 7.4 | 125.0 | -1.09 | 11.1 | 4 | EV |
| HHQ8BT | 147.9 | 0.97 | 16.7 | 149.9 | 1.17 | 16.6 | 4 | EV |
| J9XEG8 | 128.7 | -0.33 | 21.8 | 124.7 | -1.11 | 14.9 | 4 | LA |
| JMVVHM | 130.6 | -0.20 | 15.3 | 142.9 | 0.53 | 13.2 | 4 | LA |
| K27NA3 | 137.1 | 0.24 | 17.5 | 138.7 | 0.15 | 16.6 | 4 | LA |
| N3AHED | 149.2 | 1.06 | 21.7 | 154.9 | 1.62 | 23.3 | 4 | LA |
| N9WBPR | 131.3 | -0.15 | 12.3 | 135.1 | -0.18 | 13.9 | 4 | EV |
| NUZWT6 | 145.3 | 0.80 | 9.3 | 143.9 | 0.63 | 13.8 | 4 | EV |
| QUC8K9 | 134.6 | 0.07 | 13.3 | 139.4 | 0.22 | 10.1 | 4 | EV |
| RDXLB3 | 118.6 | -1.01 | 7.3 | 120.1 | -1.53 | 8.4 | 4 | EV |
| RVGGPB | 124.1 | -0.64 | 12.4 | 125.2 | -1.06 | 14.6 | 4 | LA |
| WANYPZ | 115.6 | -1.21 | 14.6 | 119.3 | -1.60 | 15.4 | 4 | LA |
| WJQGZ3 | 124.3 | -0.62 | 15.4 | 141.1 | 0.37 | 13.2 | 4 | EV |
| X7YEB3 | 167.5 | 2.29 * | 25.2 | 154.2 | 1.56 | 20.9 | 4 | EV |
| XL8ZHC | 141.8 | 0.56 | 16.4 | 141.8 | 0.43 | 13.7 | 4 | EV |
| Y8AB4R | 131.4 | -0.14 | 16.4 | 124.4 | -1.14 | 12.6 | 3 | EV |

Consensus (All Labs) Results

| | | | |
|--------------|--------|--------------|--------|
| Month Mean | 133.55 | Grand Mean | 137.01 |
| Avg SDr | 15.67 | Avg SDr | 14.66 |
| SD btwn Labs | 14.83 | SD btwn Labs | 11.05 |
| Labs Incd | 21 | Labs Incd | 20 |

Instrument Code List as Reported by the Labs

(EV) - Emveco Microgage Model 210-R

(LA) - L & W Autoline

Containerboard Interlaboratory Testing Program
 Analysis 231
Internal Bond, 36 lb Linerboard - 36Z
 TAPPI Provisional Test Method T569



| WebCode | Monthly Results | | | Cumulative Results | | | | |
|---------|-----------------|---------|------|--------------------|---------|------|--------|------|
| | Mean | CPV | SDr | Mean | CPV | SDr | Months | Inst |
| 46PT9B | 189.6 | 1.14 | 10.5 | 196.8 | 1.56 | 8.9 | 3 | HY |
| 4988FH | 174.6 | 0.38 | 5.3 | 174.4 | 0.46 | 6.6 | 4 | TM |
| 7VR3HK | 154.6 | -0.65 | 5.7 | 155.1 | -0.49 | 4.3 | 4 | SC |
| 7YQDCY | 162.2 | -0.26 | 6.1 | 165.6 | 0.03 | 15.1 | 4 | TM |
| 9LFPCZ | 182.2 | 0.76 | 10.0 | 175.7 | 0.52 | 6.8 | 4 | SC |
| 9QALY7 | 196.0 | 1.47 | 18.5 | 181.0 | 0.78 | 18.1 | 4 | SC |
| DANPPE | 177.8 | 0.54 | 1.5 | 177.8 | 0.63 | 1.5 | 1 | HZ |
| DTXL7P | 207.4 | 2.05 * | 7.2 | 197.1 | 1.58 | 8.5 | 4 | HY |
| G2M9R7 | 163.9 | -0.17 | 0.8 | 171.0 | 0.29 | 5.1 | 4 | HY |
| J9XEG8 | 164.8 | -0.13 | 28.8 | 147.3 | -0.87 | 16.0 | 4 | TM |
| L4AJQK | 133.8 | -1.71 | 10.9 | 121.1 | -2.16 * | 12.5 | 4 | SC |
| N3AHED | 175.9 | 0.44 | 6.7 | 183.4 | 0.90 | 7.2 | 4 | HY |
| Q2BW3X | 158.8 | -0.43 | 7.2 | 163.3 | -0.08 | 4.6 | 4 | TM |
| QUC8K9 | 145.4 | -1.12 | 6.5 | 144.8 | -1.00 | 6.7 | 4 | TM |
| WJQGZ3 | 142.8 | -1.25 | 11.3 | 140.1 | -1.23 | 7.0 | 4 | TM |
| WYN7GA | 68.0 | -5.07 X | 0.5 | 66.2 | -4.86 X | 1.0 | 4 | LZ |
| XL8ZHC | 152.4 | -0.76 | 4.7 | 151.6 | -0.66 | 5.8 | 4 | TM |
| Y8AB4R | 161.0 | -0.32 | 2.0 | 160.0 | -0.25 | 14.0 | 4 | HY |

| Consensus (All Labs) Results | | | |
|------------------------------|--------|--------------|--------|
| Month Mean | 167.25 | Grand Mean | 165.04 |
| Avg SDr | 10.69 | Avg SDr | 9.86 |
| SD btwn Labs | 19.57 | SD btwn Labs | 20.34 |
| Labs Incl | 17 | Labs Incl | 17 |

Instrument Code List as Reported by the Labs

(HY) - Huygen Digitized Scott Internal Bond Tester
 (LZ) - L & W (model not specified)
 (TM) - TMI Monitor/Internal Bond Tester

(HZ) - Huygen Internal Bond Tester with AccuPress
 (SC) - Scott Internal Bond Tester (Manual)

Containerboard Interlaboratory Testing Program
 Analysis 234
COF Inclined Plane (Slide Angle), 36 lb Linerboard - 36Z
 TAPPI Official Test Method T815



| WebCode | Monthly Results | | | Cumulative Results | | | |
|---------|-----------------|---------|-----|--------------------|--------|-----|--------|
| | Mean | CPV | SDr | Mean | CPV | SDr | Months |
| 29DNYX | 29.1 | 0.72 | 3.6 | 27.2 | 0.02 | 3.8 | 4 |
| 4988FH | 23.7 | -2.23 * | 2.1 | 25.9 | -0.72 | 2.4 | 4 |
| 64PALZ | 26.8 | -0.54 | 2.3 | 27.7 | 0.34 | 2.2 | 3 |
| 7VR3HK | 30.0 | 1.21 | 1.0 | 29.5 | 1.40 | 1.2 | 4 |
| 7YQDCY | 29.2 | 0.77 | 3.1 | 30.7 | 2.10 * | 2.8 | 4 |
| 9QALY7 | 27.0 | -0.43 | 1.6 | 26.4 | -0.42 | 1.6 | 4 |
| DTXL7P | 27.8 | 0.01 | 3.1 | 26.4 | -0.45 | 1.9 | 4 |
| G2M9R7 | 26.6 | -0.65 | 0.9 | 24.3 | -1.68 | 1.6 | 4 |
| HHQ8BT | 26.3 | -0.79 | 1.5 | 25.0 | -1.24 | 1.4 | 4 |
| J9XEG8 | 27.2 | -0.32 | 2.6 | 24.5 | -1.56 | 1.7 | 4 |
| KXTLM8 | 29.4 | 0.88 | 3.0 | 26.0 | -0.65 | 3.0 | 4 |
| N3AHED | 28.6 | 0.45 | 0.5 | 28.9 | 1.06 | 2.2 | 4 |
| NUZWT6 | 30.0 | 1.21 | 0.7 | 29.0 | 1.07 | 2.7 | 4 |
| QEBVNA | 26.9 | -0.49 | 2.1 | 26.2 | -0.56 | 1.9 | 4 |
| QUC8K9 | 26.5 | -0.71 | 0.7 | 26.9 | -0.15 | 0.9 | 4 |
| WJQGZ3 | 25.2 | -1.42 | 2.5 | 27.2 | 0.02 | 2.1 | 4 |
| WYN7GA | 28.4 | 0.34 | 1.3 | 28.5 | 0.78 | 1.1 | 4 |
| XL8ZHC | 31.2 | 1.87 | 1.9 | 27.8 | 0.42 | 2.1 | 4 |
| XULPJ7 | 28.0 | 0.12 | 2.0 | 27.5 | 0.23 | 3.0 | 4 |

| Consensus (All Labs) Results | | | |
|------------------------------|-------|--------------|-------|
| Month Mean | 27.79 | Grand Mean | 27.11 |
| Avg SDr | 2.12 | Avg SDr | 2.20 |
| SD btwn Labs | 1.83 | SD btwn Labs | 1.71 |
| Labs Incd | 19 | Labs Incd | 19 |

Instrument Code List as Reported by the Labs

(ZZ) - Instruments No Longer Tracked

Containerboard Interlaboratory Testing Program
 Analysis 237
Air Resistance, 36 lb Linerboard - 36Z
 TAPPI Official Test Method T460



| WebCode | Monthly Results | | | Cumulative Results | | | | |
|---------|-----------------|----------|-----|--------------------|---------|-----|--------|------|
| | Mean | CPV | SDr | Mean | CPV | SDr | Months | Inst |
| 29DNYX | 49.8 | -1.13 | 2.2 | 49.3 | -0.34 | 2.2 | 4 | GA |
| 4988FH | 51.9 | 0.20 | 2.2 | 52.4 | 0.62 | 2.6 | 4 | HG |
| 7YQDCY | 50.1 | -0.96 | 3.2 | 51.7 | 0.38 | 2.4 | 4 | LP |
| 9LFPCZ | 51.3 | -0.21 | 1.0 | 50.9 | 0.13 | 1.7 | 4 | LP |
| 9QALY7 | 50.9 | -0.45 | 2.6 | 52.2 | 0.55 | 3.4 | 4 | HG |
| 9WHCGY | 50.1 | -0.96 | 0.9 | 49.8 | -0.21 | 1.3 | 4 | LP |
| ABCQ4R | 50.5 | -0.68 | 1.3 | 50.8 | 0.12 | 1.8 | 4 | LA |
| DTXL7P | 52.1 | 0.33 | 1.8 | 51.7 | 0.38 | 2.0 | 4 | LP |
| G2M9R7 | 52.1 | 0.28 | 2.6 | 51.5 | 0.32 | 2.9 | 4 | TP |
| J9XEG8 | 52.0 | 0.25 | 2.4 | 44.2 | -1.92 | 4.5 | 4 | XX |
| K36UNC | 51.9 | 0.16 | 1.3 | 53.4 | 0.91 | 2.0 | 4 | XX |
| KA2QBE | 54.4 | 1.77 | 4.5 | 54.4 | 1.23 | 2.9 | 4 | XX |
| N3AHED | 51.2 | -0.26 | 2.0 | 51.6 | 0.36 | 1.8 | 4 | LA |
| N9WBPR | 54.6 | 1.90 | 1.4 | 53.8 | 1.05 | 1.5 | 4 | XX |
| NUZWT6 | 50.9 | -0.44 | 1.9 | 51.3 | 0.27 | 1.4 | 4 | LP |
| PEGTKE | 48.7 | -1.83 | 2.8 | 48.4 | -0.63 | 2.2 | 4 | LA |
| QEBVNA | 43.3 | -5.24 X | 2.4 | 42.2 | -2.53 * | 2.1 | 4 | XX |
| QUC8K9 | 54.0 | 1.52 | 2.0 | 54.0 | 1.10 | 2.3 | 4 | LA |
| RVGGPB | 53.7 | 1.35 | 2.9 | 52.9 | 0.77 | 3.3 | 4 | TL |
| WJQGZ3 | 44.0 | -4.80 X | 1.9 | 44.2 | -1.93 | 2.4 | 4 | XX |
| WYN7GA | 26.8 | -15.75 X | 1.7 | 47.2 | -1.00 | 1.5 | 4 | LA |
| X7YEB3 | 50.9 | -0.46 | 1.3 | 50.9 | 0.16 | 3.0 | 4 | LW |
| XULPJ7 | 51.0 | -0.39 | 3.1 | 51.1 | 0.20 | 2.0 | 4 | LP |

Consensus (All Labs) Results

| | | | |
|--------------|-------|--------------|-------|
| Month Mean | 51.61 | Grand Mean | 50.43 |
| Avg SDr | 2.33 | Avg SDr | 2.42 |
| SD btwn Labs | 1.58 | SD btwn Labs | 3.24 |
| Labs Incd | 20 | Labs Incd | 23 |

Instrument Code List as Reported by the Labs

(GA) - Gurley Precision #4340 Automatic Densometer
 (LA) - L & W Autoline
 (LW) - L & W Gurley Densometer, Oil Flotation
 (TP) - Technidyne Profile/ plus Roughness & Porosity

(HG) - Technidyne - Hagerty Model #1 and Profile System
 (LP) - L & W Air Permeance Tester SE 166
 (TL) - Teledyne Gurley Densometer #4110, Oil Flotation
 (XX) - Instrument make/model not specified by lab

Containerboard Interlaboratory Testing Program
 Analysis 240
 Flat Crush Strength (CMT), 26 lb Corrugating Medium - CM73
 TAPPI Official Test Method T809



| WebCode | Weekly Means | | | | Monthly Results | | | | Cumulative Results | | | | | Inst |
|---------|--------------|-----------|---------|---------|-----------------|-------|-------|--------|--------------------|-------|-------|--------|------|------|
| | Week 1 | Week 2 | Week 3 | Week 4 | Mean | CPV | SDr | SD Wks | Mean | CPV | SDr | SD Wks | Wks | |
| 2G7X79 | 62.0 | 61.7 | 62.6 | 61.5 | 62.0 | 0.06 | 2.5 | 0.5 | 62.2 | 0.16 | 2.3 | 0.5 | 16 | LC |
| 3THLWK | 61.6 | L NO DATA | NO DATA | NO DATA | 61.6 | -0.10 | 1.4 | 0.0 L | 61.4 | -0.24 | 1.8 | 0.6 | 13 | LC |
| 3THNK4 | 64.5 | 65.9 | 64.4 | 64.8 | 64.9 | 1.39 | 2.8 | 0.7 | 63.5 | 0.81 | 2.8 | 1.4 | 16 | LD |
| 449Y82 | 62.9 | 62.6 | L 62.6 | 62.6 L | 62.7 | 0.39 | 1.6 | 0.2 L | 62.7 | 0.40 | 1.9 | 0.4 | 16 | LD |
| 46PT9B | 61.8 | 61.6 | 61.9 | 61.7 | 61.8 | -0.03 | 2.4 | 0.1 L | 59.5 | -1.17 | 2.5 | 1.7 | 16 | LC |
| 64PALZ | 60.7 | 64.2 | 63.6 | 61.2 | 62.4 | 0.27 | 2.8 | 1.7 | 60.9 | -0.47 | 2.6 | 1.6 | 12 | LD |
| 6H46R3 | 60.9 | 63.4 | 62.0 | 60.6 | 61.7 | -0.04 | 2.7 | 1.3 | 61.4 | -0.21 | 3.0 | 1.5 | 12 | TH |
| 7GVKTM | 62.7 | 62.9 | 62.7 | 62.2 | 62.6 | 0.36 | 2.9 | 0.3 L | 63.6 | 0.84 | 3.0 | 1.1 | 16 | LD |
| 7H7P34 | 62.3 | 61.9 | 62.3 | 61.6 | 62.0 | 0.09 | 2.3 | 0.3 | 62.3 | 0.21 | 2.4 | 0.6 | 16 | LD |
| 7QWB83 | 60.5 | L 59.6 | 61.4 | 59.7 | 60.3 | -0.68 | 2.3 | 0.8 | 60.7 | -0.57 | 2.4 | 1.2 | 12 | LC |
| 84EHH9 | 61.9 | 61.3 | 61.3 | 61.5 | 61.5 | -0.14 | 2.5 | 0.3 | 62.2 | 0.16 | 3.1 | 0.9 | 16 | LD |
| CB3TKQ | 59.2 | 62.3 | 63.1 | 61.7 | 61.6 | -0.11 | 3.3 | 1.7 | 63.2 | 0.65 | 3.5 | 1.9 | 16 | LD |
| DANPPE | 65.1 | 73.9 | XH 77.1 | XH 70.5 | X 71.7 | 4.42 | X 5.1 | 5.1 H | 69.1 | 3.59 | X 5.5 | 6.8 | H 6 | LC |
| DTXL7P | NO DATA | 61.7 | 61.4 | 61.6 | 61.6 | -0.12 | 4.0 | 0.1 L | 60.9 | -0.50 | 4.0 | 1.0 | 15 | LC |
| G2M9R7 | 62.2 | 62.2 | 62.5 | 60.9 | 61.9 | 0.06 | 3.0 | 0.7 | 61.2 | -0.32 | 3.5 | 1.2 | 16 | LC |
| GPTWFR | 65.5 | 65.8 | 59.2 | 59.4 | 62.5 | 0.29 | 3.2 | 3.7 H | 61.6 | -0.11 | 3.0 | 3.3 | H 16 | LZ |
| HP8BCM | 61.1 | 62.3 | 61.4 | 62.1 | 61.7 | -0.04 | 2.6 | 0.6 | 61.6 | -0.12 | 2.6 | 1.0 | 16 | TH |
| HXGARW | 62.6 | 62.1 | 62.7 | 66.7 | L 63.5 | 0.76 | 2.3 | 2.2 | 65.4 | 1.79 | 2.5 | 1.8 | 16 | LC |
| J8W72F | 62.1 | 61.2 | 61.2 | 62.3 | 61.7 | -0.05 | 3.4 | 0.6 | 61.6 | -0.11 | 3.1 | 0.8 | 16 | LD |
| JGQPPH | 60.4 | H 63.6 | 61.3 | H 62.2 | H 61.8 | 0.01 | 5.9 | 1.4 | 62.2 | 0.19 | 4.3 | 1.6 | 16 | LD |
| JMVVHM | 60.9 | 62.0 | 62.6 | 63.1 | 62.1 | 0.15 | 2.5 | 1.0 | 60.0 | -0.95 | 2.7 | 2.0 | 16 | LD |
| K27NA3 | 56.0 | * NO DATA | 58.2 | NO DATA | 57.1 | -2.13 | * 3.6 | 1.6 | 58.6 | -1.62 | 3.9 | 2.0 | 13 | MB |
| K36UNC | 63.6 | 63.0 | 62.7 | 61.7 | 62.7 | 0.41 | 3.0 | 0.8 | 62.0 | 0.07 | 2.6 | 0.9 | 16 | LD |
| L4AJQK | 62.0 | 58.5 | 64.4 | 60.7 | 61.4 | -0.18 | 3.2 | 2.5 | 60.7 | -0.56 | 3.0 | 2.0 | 16 | LC |
| N7TDH7 | 64.7 | 63.1 | 62.3 | 64.4 | 63.6 | 0.81 | 2.7 | 1.1 | 63.2 | 0.68 | 3.1 | 1.9 | 16 | LC |
| N9WBPR | 62.8 | 63.5 | 65.4 | 65.0 | 64.2 | 1.05 | 3.1 | 1.2 | 65.0 | 1.57 | 4.1 | 2.8 | 16 | MB |
| NUZWT6 | 59.6 | 58.2 | 59.4 | 58.5 | 58.9 | -1.30 | 2.7 | 0.7 | 60.4 | -0.75 | 2.7 | 1.1 | 16 | LZ |
| PCDWYQ | 63.2 | 62.0 | 62.1 | L 62.0 | 62.3 | 0.22 | 1.9 | 0.6 | 61.6 | -0.11 | 2.1 | 1.2 | 16 | LD |
| PEGTKE | 67.3 | * 66.9 | H 65.5 | 66.6 | 66.5 | 2.12 | * 4.3 | 0.8 | 66.1 | 2.12 | * 4.2 | 1.4 | 16 | LC |
| QGHFF | 66.9 | * 66.0 | 64.9 | 66.5 | 66.1 | 1.91 | 2.8 | 0.9 | 66.1 | 2.10 | * 2.7 | 0.8 | 12 | TM |
| QR2PZ3 | 62.6 | 65.0 | L 63.8 | 64.7 | L 64.0 | 0.99 | 1.2 | 1.1 | 63.2 | 0.65 | 1.1 | 1.7 | 16 | TD |
| QR2RQ8 | 59.9 | 59.0 | NO DATA | NO DATA | 59.4 | -1.06 | 3.0 | 0.6 | 59.3 | -1.27 | 2.6 | 1.2 | 6 | LZ |
| QUC8K9 | 62.0 | 60.1 | 61.4 | 62.8 | 61.6 | -0.11 | 3.7 | 1.1 | 62.4 | 0.26 | 4.0 | 3.0 | H 16 | LC |
| T3HVBC | 61.4 | 59.9 | 61.1 | 59.5 | L 60.5 | -0.60 | 2.4 | 0.9 | 61.5 | -0.17 | 2.4 | 1.1 | 16 | EM |
| TNX3DC | 61.6 | H 58.6 | 60.5 | H 61.2 | 60.5 | -0.60 | 4.8 | 1.3 | 61.4 | -0.24 | 5.1 | 1.9 | 16 | TG |

Containerboard Interlaboratory Testing Program
 Analysis 240
Flat Crush Strength (CMT), 26 lb Corrugating Medium - CM73
 TAPPI Official Test Method T809



| WebCode | Weekly Means | | | | Monthly Results | | | | Cumulative Results | | | | | |
|---------|--------------|---------|--------|---------|-----------------|-------|-----|--------|--------------------|---------|-----|--------|-----|------|
| | Week 1 | Week 2 | Week 3 | Week 4 | Mean | CPV | SDr | SD Wks | Mean | CPV | SDr | SD Wks | Wks | Inst |
| UE7E7T | No DATA | 61.4 | 60.7 | No DATA | 61.0 | -0.36 | 2.5 | 0.5 | 59.9 | -0.99 | 2.8 | 1.5 | 14 | LZ |
| UJ292A | 64.1 | 61.8 | 61.3 | 64.0 | 62.8 | 0.43 | 3.8 | 1.4 | 61.8 | -0.02 | 4.0 | 1.4 | 14 | LC |
| V39XRC | 59.8 | 58.4 | 59.1 | 58.2 | 58.9 | -1.32 | 3.1 | 0.7 | 35.4 | -13.16X | 2.3 | 25.2H | 8 | TH |
| VFWZB4 | 70.0 X | 66.9 H | 69.9 X | 56.4 *H | 65.8 | 1.78 | 8.2 | 6.4 H | 64.2 | 1.15 | 5.8 | 3.4 H | 16 | LC |
| WYN7GA | 61.2 | 56.2 * | 55.6 X | 58.3 | 57.8 | -1.80 | 2.5 | 2.5 | 61.0 | -0.41 | 2.5 | 3.9 H | 8 | LD |
| X7YEB3 | 61.1 | 54.4 XH | 56.9 * | 58.5 | 57.7 | -1.84 | 6.4 | 2.8 | 57.5 | -2.17 * | 5.5 | 4.0 H | 16 | XX |
| XL8ZHC | 59.0 | 59.5 | 59.2 | 59.4 | 59.3 | -1.14 | 2.6 | 0.2 L | 58.6 | -1.62 | 2.6 | 1.6 | 16 | LD |
| XULPJ7 | 61.4 | 63.9 | 62.5 | 61.0 | 62.2 | 0.17 | 3.4 | 1.3 | 63.7 | 0.90 | 3.2 | 1.9 | 16 | LC |
| YZAUPE | 57.3 | 58.8 | 57.6 * | 56.9 | 57.7 | -1.87 | 3.3 | 0.8 | 58.6 | -1.63 | 3.5 | 1.5 | 16 | LD |
| ZX22A8 | 67.6 * | 64.9 | 65.5 | 66.1 | 66.0 | 1.89 | 2.9 | 1.1 | 65.1 | 1.62 | 2.9 | 1.0 | 16 | EM |

| Consensus (All Labs) Results | | | | | | | | | |
|------------------------------|-------|-------|-------|-------|--------------|-------|--------------|-------|--|
| Wk Mean | 62.04 | 62.04 | 61.86 | 61.74 | Month Mean | 61.82 | Grand Mean | 61.86 | |
| Avg SDr | 3.31 | 3.15 | 3.07 | 3.69 | Avg SDr | 3.37 | Avg SDr | 3.24 | |
| SD btwn Labs | 2.38 | 2.52 | 2.06 | 2.57 | SD btwn Labs | 2.23 | SD btwn Labs | 2.01 | |
| Labs Includ | 42 | 41 | 40 | 40 | SD btwn Wks | 1.62 | SD btwn Wks | 1.82 | |
| Labs Exclud | 1 | 2 | 3 | 1 | Labs Includ | 44 | Labs Includ | 43 | |
| Labs not rcvd | 2 | 2 | 2 | 4 | | | | | |

Instrument Code List as Reported by the Labs

- | | |
|--|---|
| (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 | (TD) - TMI Digital Crush Tester, Model 17-09 |
| (TG) - TMI Compression Tester, Model 17-10 | (TH) - TMI Compression Tester, Model 17-76 |
| (TM) - TMI/Hinde & Dauch | (XX) - Instrument make/model not specified by lab |



| WebCode | Weekly Means | | | | Monthly Results | | | | | Cumulative Results | | | | | Inst |
|---------|--------------|--------|---------|--------|-----------------|---------|-----|--------|------|--------------------|-----|--------|-----|----|------|
| | Week 1 | Week 2 | Week 3 | Week 4 | Mean | CPV | SDr | SD Wks | Mean | CPV | SDr | SD Wks | Wks | | |
| 36NV3L | 65.5 * | 61.0 X | 64.3 XH | 62.7 X | 63.4 | -5.26 X | 3.2 | 2.0 | 71.5 | -1.26 | 4.0 | 6.6 H | 16 | TU | |
| 449Y82 | 72.7 | 73.2 | 72.7 | 72.6 | 72.8 | -0.57 | 1.9 | 0.3 L | 72.8 | -0.52 | 1.9 | 0.6 | 16 | LD | |
| 7QWB83 | 71.5 | 74.3 | 76.5 | 73.0 | 73.8 | -0.06 | 2.9 | 2.1 | 73.2 | -0.33 | 3.5 | 1.6 | 12 | LZ | |
| G2M9R7 | 77.7 | 78.2 | 78.5 | 79.7 * | 78.5 | 2.28 * | 2.7 | 0.9 | 77.6 | 2.13 * | 2.5 | 1.3 | 16 | LC | |
| GPTWFR | 76.4 | 68.4 H | 75.1 H | 77.3 | 74.3 | 0.17 | 5.4 | 4.0 H | 75.5 | 0.98 | 3.5 | 3.4 | 16 | LZ | |
| HXGARW | 76.4 H | 74.8 | 75.2 | 75.4 | 75.5 | 0.76 | 2.8 | 0.7 | 75.1 | 0.73 | 2.5 | 0.8 | 16 | LC | |
| KA2QBE | 73.2 | 73.3 L | 74.6 L | 72.7 L | 73.5 | -0.23 | 1.4 | 0.8 | 72.8 | -0.54 | 1.4 | 0.9 | 16 | XX | |
| PCDWYQ | 71.3 L | 71.7 L | 71.4 | 73.2 | 71.9 | -1.01 | 1.6 | 0.9 | 72.0 | -1.00 | 1.5 | 0.7 | 16 | LD | |
| QR2PZ3 | 72.0 | 75.4 L | 73.0 L | 70.3 L | 72.7 | -0.64 | 1.1 | 2.1 | 72.6 | -0.65 | 0.9 | 1.2 | 16 | TD | |
| WYN7GA | 74.7 | 75.1 | 74.5 | 74.8 | 74.8 | 0.41 | 2.3 | 0.3 L | 74.7 | 0.54 | 2.6 | 1.3 | 8 | LD | |
| XULPJ7 | 71.9 | 71.1 | 71.6 | 72.2 | 71.7 | -1.11 | 2.3 | 0.5 | 73.6 | -0.07 | 3.1 | 1.6 | 16 | XX | |

| Consensus (All Labs) Results | | | | | | | | | |
|------------------------------|-------|-------|-------|-------|--------------|-------|--------------|-------|--|
| Wk Mean | 73.03 | 73.55 | 74.31 | 74.11 | Month Mean | 73.94 | Grand Mean | 73.77 | |
| Avg SDr | 2.53 | 3.37 | 2.63 | 2.11 | Avg SDr | 2.70 | Avg SDr | 2.65 | |
| SD btwn Labs | 3.37 | 2.69 | 2.21 | 2.77 | SD btwn Labs | 2.01 | SD btwn Labs | 1.81 | |
| Labs Incd | 11 | 10 | 10 | 10 | SD btwn Wks | 1.68 | SD btwn Wks | 2.47 | |
| Labs Excl | 0 | 1 | 1 | 1 | Labs Incd | 10 | Labs Incd | 11 | |
| Labs not rcvd | 0 | 0 | 0 | 0 | | | | | |

Instrument Code List as Reported by the Labs

(LC) - L & W Crush Tester 48

(LZ) - L & W Crush Tester (model not specified)

(TU) - TMI Universal Crush Tester (TMI K440)

(LD) - L&W Crush Tester 248

(TD) - TMI Digital Crush Tester, Model 17-09

(XX) - Instrument make/model not specified by lab

Containerboard Interlaboratory Testing Program
 Analysis 255
Ring Crush (RCT), 26 lb Corrugating Medium - CM73
 TAPPI Official Test Method T822



| WebCode | Weekly Means | | | | Monthly Results | | | | Cumulative Results | | | | | |
|---------|--------------|---------|---------|---------|-----------------|-------|-----|--------|--------------------|-------|-----|--------|-----|------|
| | Week 1 | Week 2 | Week 3 | Week 4 | Mean | CPV | SDr | SD Wks | Mean | CPV | SDr | SD Wks | Wks | Inst |
| 3THLWK | 45.8 | No DATA | No DATA | No DATA | 45.8 | 0.84 | 1.3 | 0.0 L | 44.7 | 0.41 | 1.3 | 2.8 H | 13 | LC |
| 3THNK4 | 46.0 | 46.5 | 45.6 | 46.4 | 46.1 | 0.99 | 2.3 | 0.4 | 46.0 | 0.96 | 2.1 | 0.8 | 16 | LD |
| 7GVKTM | 44.1 | 44.1 | 44.5 L | 44.4 | 44.3 | 0.27 | 1.6 | 0.2 | 44.2 | 0.21 | 1.9 | 0.7 | 16 | LD |
| 84EHH9 | 47.0 | 47.4 | 47.5 | 47.6 | 47.4 | 1.48 | 3.3 | 0.3 | 47.6 | 1.66 | 3.7 | 0.9 | 16 | LZ |
| BERJUK | 44.3 | 42.5 | 42.6 | 44.3 | 43.4 | -0.07 | 2.0 | 1.0 | 42.4 | -0.56 | 2.1 | 1.1 | 16 | TH |
| DANPPE | 43.8 | 43.0 | 41.0 | 42.7 | 42.6 | -0.38 | 3.0 | 1.2 | 42.4 | -0.52 | 3.0 | 1.1 | 8 | LD |
| G2M9R7 | 44.7 | 44.1 | 43.8 | 43.2 | 44.0 | 0.14 | 3.2 | 0.6 | 44.2 | 0.20 | 2.9 | 0.8 | 16 | LC |
| J8W72F | 47.7 | 47.2 | 48.1 | 47.4 | 47.6 | 1.55 | 2.5 | 0.4 | 48.2 | 1.90 | 2.3 | 0.7 | 16 | LD |
| JMVVHM | 38.0 * | 39.8 L | 39.6 | 40.9 | 39.6 | -1.57 | 2.1 | 1.2 | 40.3 | -1.41 | 2.4 | 1.5 | 16 | LD |
| K36UNC | 43.1 | 42.6 H | 43.7 H | 42.3 | 43.0 | -0.25 | 4.1 | 0.6 | 42.8 | -0.37 | 3.5 | 1.0 | 16 | LD |
| LC84JM | 44.3 | 43.6 | 42.4 | 40.3 | 42.6 | -0.37 | 2.8 | 1.7 | 43.3 | -0.17 | 3.0 | 2.4 H | 12 | LZ |
| N7TDH7 | 40.2 | 41.5 | 41.5 | 41.5 L | 41.2 | -0.93 | 1.8 | 0.6 | 41.3 | -1.00 | 1.9 | 1.2 | 16 | LC |
| PEGTKE | 48.1 | 47.5 | 48.3 | 48.8 | 48.2 | 1.79 | 2.3 | 0.6 | 48.0 | 1.83 | 2.6 | 0.6 | 16 | LD |
| QGHFFF | 40.3 | 40.6 | 39.2 | 38.7 | 39.7 | -1.52 | 2.6 | 0.9 | 40.3 | -1.40 | 2.4 | 2.9 H | 12 | LD |
| QR2RQ8 | 40.0 | 41.9 | No DATA | No DATA | 41.0 | -1.03 | 3.0 | 1.3 | 42.0 | -0.70 | 3.4 | 1.2 | 6 | EM |
| T3HVBC | 40.5 | 39.5 L | 40.5 | 41.1 L | 40.4 | -1.24 | 1.5 | 0.7 | 41.3 | -1.02 | 2.1 | 0.9 | 16 | LC |
| WYN7GA | 42.9 | 43.0 | 42.8 | 45.9 | 43.6 | 0.02 | 2.4 | 1.5 | 43.3 | -0.18 | 3.3 | 1.1 | 8 | LD |
| X7YEB3 | 45.8 | 43.6 | 45.6 | 46.9 | 45.5 | 0.73 | 3.0 | 1.3 | 45.1 | 0.59 | 3.0 | 2.3 | 16 | XX |
| XULPJ7 | 41.2 | 42.7 L | 41.0 | 43.6 | 42.1 | -0.57 | 1.8 | 1.2 | 42.1 | -0.68 | 2.2 | 1.9 | 16 | LC |
| ZVCPDM | 44.0 | 43.9 | 42.7 L | 44.7 | 43.8 | 0.09 | 1.3 | 0.8 | 44.3 | 0.25 | 1.2 | 0.7 | 16 | WK |

| Consensus (All Labs) Results | | | | | | | | | |
|------------------------------|-------|-------|-------|-------|--------------|-------|--------------|-------|--|
| Wk Mean | 43.58 | 43.43 | 43.35 | 43.93 | Month Mean | 43.59 | Grand Mean | 43.68 | |
| Avg SDr | 2.53 | 2.39 | 2.52 | 2.69 | Avg SDr | 2.51 | Avg SDr | 2.61 | |
| SD btwn Labs | 2.79 | 2.38 | 2.79 | 2.84 | SD btwn Labs | 2.56 | SD btwn Labs | 2.38 | |
| Labs Includ | 20 | 19 | 18 | 18 | SD btwn Wks | 0.98 | SD btwn Wks | 1.51 | |
| Labs Exclud | 0 | 0 | 0 | 0 | Labs Includ | 20 | Labs Includ | 20 | |
| Labs not rcvd | 0 | 1 | 2 | 2 | | | | | |

Instrument Code List as Reported by the Labs

(EM) - Emerson 1200 Series

(LD) - L&W Crush Tester 248

(TH) - TMI Compression Tester, Model 17-76

(XX) - Instrument make/model not specified by lab

(LC) - L & W Crush Tester 48

(LZ) - L & W Crush Tester (model not specified)

(WK) - Zwick Z005 Crush Tester

Containerboard Interlaboratory Testing Program
 Analysis 261
STFI, 26 lb Corrugating Medium - CM73
 TAPPI Provisional Test Method T826



| WebCode | Weekly Means | | | | Monthly Results | | | | Cumulative Results | | | | Inst | |
|---------|--------------|---------|---------|---------|-----------------|---------|-----|--------|--------------------|--------|-----|--------|------|-----|
| | Week 1 | Week 2 | Week 3 | Week 4 | Mean | CPV | SDr | SD Wks | Mean | CPV | SDr | SD Wks | | Wks |
| 2G7X79 | 15.1 | 15.2 | 15.1 | 14.9 | 15.1 | 0.11 | 1.2 | 0.1 | 14.9 | -0.27 | 1.1 | 0.2 | 16 | LB |
| 3THLWK | 15.4 | No DATA | No DATA | No DATA | 15.4 | 0.74 | 0.7 | 0.0 L | 15.0 | -0.16 | 0.8 | 0.5 | 13 | XX |
| 3TVEBY | 15.5 | 14.6 | 14.0 | 14.1 | 14.5 | -1.04 | 1.1 | 0.7 | 14.4 | -1.15 | 1.2 | 0.6 | 15 | LB |
| 449Y82 | 14.6 | 14.6 | 14.6 | 14.3 | 14.5 | -1.03 | 0.9 | 0.1 | 14.4 | -1.18 | 0.8 | 0.3 | 16 | LA |
| 64PALZ | 12.1 X | 13.8 * | 13.5 * | 13.9 | 13.3 | -3.68 X | 1.2 | 0.9 H | 14.6 | -0.93 | 1.2 | 1.1 H | 12 | LU |
| 6H46R3 | 15.9 | 15.0 | 15.6 | 15.3 | 15.5 | 0.95 | 1.3 | 0.4 | 15.8 | 1.34 | 1.4 | 0.4 | 12 | XX |
| 7H7P34 | 15.0 | 15.1 | 15.1 | 15.1 | 15.1 | 0.12 | 1.2 | 0.1 | 14.9 | -0.30 | 1.1 | 0.2 | 16 | LB |
| G2M9R7 | 15.1 | 15.5 | 15.1 | 14.9 | 15.1 | 0.25 | 1.0 | 0.2 | 15.1 | 0.15 | 1.0 | 0.2 | 16 | LU |
| HP8BCM | 15.1 | 15.0 | 15.0 | 15.0 L | 15.0 | -0.03 | 0.7 | 0.1 L | 14.7 | -0.59 | 0.7 | 0.3 | 16 | TT |
| J8W72F | 15.4 | 15.4 | 15.2 | 14.8 | 15.2 | 0.35 | 1.4 | 0.3 | 15.1 | 0.00 | 1.3 | 0.3 | 16 | LA |
| JMVVHM | 14.2 | 15.5 | 16.5 * | 14.8 | 15.3 | 0.49 | 1.3 | 1.0 H | 15.7 | 1.13 | 1.2 | 0.6 | 16 | LZ |
| K27NA3 | 13.7 *L | No DATA | 14.3 L | No DATA | 14.0 | -2.21 * | 0.0 | 0.4 | 14.1 | -1.82 | 0.0 | 0.3 | 13 | XX |
| LC84JM | 15.0 | 14.5 | 15.1 | 15.1 | 14.9 | -0.19 | 1.2 | 0.3 | 15.6 | 0.92 | 1.2 | 0.8 H | 12 | LA |
| N9WBPR | 15.3 L | 15.5 L | 15.9 L | 16.5 *L | 15.8 | 1.64 | 0.2 | 0.5 | 16.1 | 1.92 | 0.2 | 0.6 | 16 | BK |
| NUZWT6 | 14.4 | 14.9 | 14.5 | 14.4 | 14.6 | -0.98 | 1.1 | 0.2 | 14.5 | -1.05 | 1.2 | 0.3 | 15 | LB |
| PEGTKE | 15.6 L | 16.2 *L | 16.2 L | 16.0 L | 16.0 | 2.11 * | 0.0 | 0.3 | 18.9 | 6.92 X | 0.0 | 4.9 H | 16 | LA |
| QGHFF | 15.4 | 15.2 | 15.2 | 15.3 | 15.3 | 0.53 | 1.3 | 0.1 | 15.5 | 0.71 | 1.2 | 0.3 | 12 | LA |
| T3HVBC | 14.2 | 14.6 | 14.9 | 14.2 | 14.5 | -1.19 | 1.2 | 0.4 | 14.8 | -0.41 | 1.3 | 0.4 | 16 | LB |
| UE7E7T | No DATA | 14.8 | 14.5 | No DATA | 14.7 | -0.72 | 1.1 | 0.2 | 15.1 | 0.04 | 1.2 | 0.4 | 14 | LW |
| UJ292A | 15.4 | 15.4 | 15.2 | 15.3 | 15.3 | 0.69 | 1.0 | 0.1 | 15.9 | 1.46 | 1.2 | 0.4 | 14 | LW |
| V39XRC | 25.6 XL | 25.3 XL | 25.6 XL | 25.1 XL | 25.4 | 22.17 X | 0.0 | 0.3 | 23.1 | 14.66X | 0.1 | 4.7 H | 8 | LZ |
| WYN7GA | 14.8 | 14.6 | 14.4 | 15.7 | 14.9 | -0.31 | 1.1 | 0.6 | 15.2 | 0.20 | 1.1 | 0.7 | 8 | LA |
| X7YEB3 | 15.4 L | 15.2 L | 14.9 L | 14.1 L | 14.9 | -0.29 | 0.0 | 0.6 | 17.4 | 4.26 X | 0.1 | 4.9 H | 16 | XX |

| Consensus (All Labs) Results | | | | | | | | | |
|------------------------------|-------|-------|-------|-------|--------------|-------|--------------|-------|--|
| Wk Mean | 15.03 | 15.03 | 15.00 | 14.93 | Month Mean | 15.02 | Grand Mean | 15.06 | |
| Avg SDr | 0.98 | 1.03 | 1.12 | 1.05 | Avg SDr | 1.02 | Avg SDr | 1.07 | |
| SD btwn Labs | 0.55 | 0.50 | 0.71 | 0.68 | SD btwn Labs | 0.47 | SD btwn Labs | 0.55 | |
| Labs Includ | 20 | 20 | 21 | 19 | SD btwn Wks | 0.40 | SD btwn Wks | 0.51 | |
| Labs Exclud | 2 | 1 | 1 | 1 | Labs Includ | 21 | Labs Includ | 20 | |
| Labs not rcvd | 1 | 2 | 1 | 3 | | | | | |

Report #548

Containerboard Interlaboratory Testing Program
Analysis 261
STFI, 26 lb Corrugating Medium - CM73
TAPPI Provisional Test Method T826



Instrument Code List as Reported by the Labs

(BK) - Buchel Strip Compression Tester BK-155

(LB) - L & W Model 152

(LW) - L & W 53 with moisture correction (was 53M)

(TT) - TMI Short Span Compression, 17-34 (MB K455)

(LA) - L & W Autoline

(LU) - L & W 52 without moisture correction (was 53)

(LZ) - L & W (model not specified)

(XX) - Instrument make/model not specified by lab