



# ***Containerboard Proficiency Testing***

***Collaborative Testing Services***



About Us, Our Testing Process.....	3
Our Reports.....	4
Containerboard Program Schedule.....	5
Test Listings and Methods.....	6–13

## ***TESTING QUESTIONS***

[containerboard@cts-interlab.com](mailto:containerboard@cts-interlab.com)

## ***QUOTE REQUESTS & ORDER INQUIRIES***

Subscriptions Department  
[subscriptions@cts-interlab.com](mailto:subscriptions@cts-interlab.com)

***Collaborative Testing Services, Inc.***

collaborative-testing.com | 571-434-1925

## **About Us**

Founded in 1971, Collaborative Testing Services (CTS) is a leading proficiency testing provider that serves the evolving quality assurance needs of several industries with innovative interlaboratory proficiency testing. With worldwide clients in both the public and private sectors, we aim to create and administer sustainable and meaningful testing schemes in both our industry and forensic programs.

CTS is ANAB-accredited to ISO/IEC 17043. Certificate Number: AP-1884.

## **Our Testing Process**

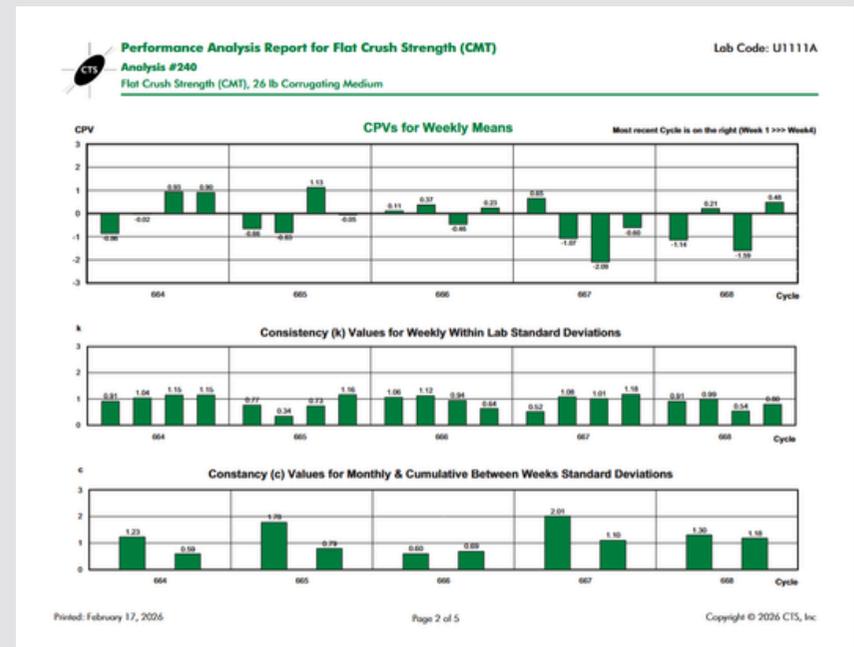
In keeping with the principles of quality assurance, we use a prepaid subscription model where testing is conducted on a monthly schedule to ensure that proficiency testing is a streamlined and consistent process for your laboratory:

- Purchase your testing, noting the type of samples offered, frequency of testing, and other conditions.
- Receive your samples, test at your convenience, and submit your results through our full-service customer portal before the data due date (six weeks after samples ship).
- Receive your in-depth, individualized Performance Analysis Report just three weeks after the data due date, which uses consensus statistics to provide you with insight on what is actionable, what is diagnostic, and what is predictive.

# Our Reports

Our reports are generated through a comprehensive analysis by our technical staff, with several features designed to provide data that is both insightful and easy to navigate.

- Trend charts visually present your historical performance over time, where continuous and consistent enrollment reaps the most benefits.
- Data tables provide a Comparative Performance Value (CPV), a ratio that represents how well your laboratory's results agree with the other participants. Our graphs provide this information in a visual format to pinpoint your lab's performance.
- Data flags and comments can be used to predict or diagnose potential issues before they escalate.



**Performance Analysis Report - May 2025** Lab Code: U1111A  
**Analysis #240: Flat Crush Strength (CMT), 26 lb Corrugating Medium**  
 using TAPPI Official Test Method T809 - Data in units of pounds

WebCode	Test Month Cycle	Sample	Week 1		Week 2		Week 3		Week 4		Monthly		Cumulative		
			Mean CPV	SD k	Mean CPV	SD k	Mean CPV	SD k	Mean CPV	SD k	Mean CPV	SD c	Mean CPV	SD c	Wks Incl
January 2025	CM13	664	55.81	3.49	58.31	3.84	60.15	4.24	60.84	4.29	58.78	2.25	59.15	1.67	16
February 2025	CM13	665	55.60	2.92	55.51	1.59 L	62.15	2.79	58.17	4.10	57.86	3.12	58.83	2.23	16
March 2025	CM13	666	57.66	3.74	58.78	4.00	56.32	3.32	58.42	2.76	57.80	1.09	58.30	1.94	16
April 2025	CM13	667	60.58	1.79	55.49	3.65	53.21	3.40	56.54	4.33	56.46	3.08 H	57.72	2.41	16
May 2025	CM13	668	54.62	3.27	57.80	3.74	53.18	1.92	59.05	2.95	56.16	2.73	57.07	2.49	16

Consensus Results for Cycle 668												
	Week 1	Week 2	Week 3	Week 4	Monthly	Cumulative						
Wk Mean	58.05	57.34	58.11	57.75	57.91	58.16	Wk Mean	58.05	57.34	58.11	57.75	57.91
Aug SD	3.59	3.77	3.55	3.70	3.67	3.65	Aug SD	3.59	3.77	3.55	3.70	3.67
SD bwn Labs	3.01	2.16	3.09	2.70	2.28	2.50	SD bwn Labs	3.01	2.16	3.09	2.70	2.28
Labs Incl	44	41	44	42	44	44	Labs Incl	44	41	44	42	44
Labs Excl	0	3	0	2	2	1	Labs Excl	0	3	0	2	2
Labs not rcvd	1	1	1	1	1	1	Labs not rcvd	1	1	1	1	1

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# Containerboard Program Schedule

We offer rolling enrollment for participation in our containerboard program. Samples for most tests ship monthly for a total of 12 shipments beginning with the earliest available cycle of testing. An example table of three cycles is included below; visit our [program page](#) for full scheduling information.

Test 201: Corrugated Box Compression Test participants receive samples for twelve months worth of testing in one shipment and perform testing monthly. Partial year enrollment is available and starts with the next scheduled shipping date. The shipment will consist of a full year's sample materials and the ability to report data for the remaining months of the year.

Enroll Between:	Samples Ship:	Testing In:	Data Due Date:	Code:
January 2nd – February 1st	second week of March	April	first Monday of May	D
February 2nd – March 1st	second week of April	May	first Monday of June	E
March 2nd – April 1st	second week of May	June	first Monday in July	F

# Test Listings and Methods

## **Test 201: Box Compression Test (BCT)**

Participants will erect, square, seal, and determine the top-to-bottom compression strength of the boxes.

The test shipment includes all samples for the year (60 boxes, 5 for each of the 12 testing cycles).

**Additional Information:** Testing is conducted on a calendar year basis, but partial-year enrollment is available and will start with the next scheduled shipping date. The shipment will consist of a full year's sample materials and the ability to report data for the remaining months of the year.

**Test Methods:** TAPPI T804.

## **Test 202: Edgewise Compression Strength (ECT) of Corrugated Fiberboard**

Participants will test samples using their choice of the listed methods or both.

Each test shipment includes ten 5" by 7" corrugated blanks.

**Test Methods:** TAPPI T811 (Wax Dip), TAPPI T839 (Clamp).

## Test Listings and Methods (cont.)

### **Test 205: Bursting Strength of Linerboard**

Participants will test weekly to determine the bursting strength of both weights of linerboard.

Each test shipment includes four packages of 42 lb. linerboard and four packages of either 52 lb. linerboard (even number cycles) or 31 lb. linerboard (odd number cycles). Each package contains five 6" by 8" randomized, pre-conditioned sheets of linerboard.

**Test Methods: TAPPI T807.**

### **Test 215: Ring Crush Strength of Linerboard**

Participants will determine the ring crush strength of both weights of linerboard.

Each test shipment includes four packages of 42 lb. linerboard and four packages of either 52 lb. linerboard (even number cycles) or 31 lb. linerboard (odd number cycles). Each package contains five 6" by 8" randomized, pre-conditioned sheets of linerboard.

**Test Methods: TAPPI T811 (Wax Dip), TAPPI T839 (Clamp).**

## Test Listings and Methods (cont.)

### **Test 223: Short Span Compression Strength of Linerboard (STFI)**

Participants will determine the short span compression strength (STFI) of both weights of linerboard.

Each test shipment includes four packages of 42 lb. linerboard and four packages of either 52 lb. linerboard (even number cycles) or 31 lb. linerboard (odd number cycles). Each package contains five 6" by 8" randomized, pre-conditioned sheets of linerboard.

**Test Methods: TAPPI T826.**

### **Test 228: Roughness, Stylus Method**

Participants will test samples according to the manufacturer's instructions and report stylus roughness measurements in micro-deviations. Although the measurement is typically conducted in the cross-machine direction, samples for this analysis are cut with the machine direction long to reduce variability.

Each test shipment includes one packet of randomized, pre-conditioned linerboard, with five sheets per packet.

**Test Methods: TAPPI T575.**

# Test Listings and Methods (cont.)

## **Test 229: Roughness, Sheffield Method**

Participants will test according to the manufacturer's instructions.

Measurements are performed on the top side of the samples, indicated by a notch in the top right corner.

Each test shipment includes one packet of randomized, pre-conditioned linerboard, with ten sheets per packet.

**Test Methods: TAPPI T538.**

## **Test 231: Internal Bonding Strength**

Participants will test according to the manufacturer's instructions.

Each test shipment includes one packet of randomized, pre-conditioned linerboard in moisture-proof packaging, with five sheets per packet.

**Additional Information: This test is applicable to both modified and classical Scott Bond mechanics.**

**Test Methods: TAPPI T569.**

## Test Listings and Methods (cont.)

### **Test 234: Slide Angle, Inclined Plane Method**

Participants will determine the slide angle.

Each test shipment includes one packet of randomized, pre-conditioned linerboard, with five sheets per packet.

**Test Methods: TAPPI T815**

### **Test 237: Air Resistance, Gurley Oil Type**

Participants will make one determination on each of the five sheets.

Each test shipment includes one packet of randomized, pre-conditioned linerboard, with five sheets per packet.

**Test Methods: TAPPI T460.**

## Test Listings and Methods (cont.)

### **Test 240: Flat Crush Strength of Medium (CMT)**

Participants will test weekly using a laboratory fluter to prepare the samples and measure the crush resistance.

Each test shipment includes four packets of randomized, pre-conditioned 23 lb. medium in moisture-proof packaging, with five sheets per packet.

**Test Methods: TAPPI T809.**

### **Test 250: Fluted Edge Crush of Medium**

Participants will test weekly to determine the fluted edge crush of the medium samples.

Each test shipment includes four packets of randomized, pre-conditioned 23 lb. medium in moisture-proof packaging, with five sheets per packet.

**Test Methods: TAPPI T843.**

# Test Listings and Methods (cont.)

## Test 255: Ring Crush Strength of Medium

Participants will test weekly to determine the ring crush strength of the medium samples.

Each test shipment includes four packets of randomized, pre-conditioned 23 lb. medium in moisture-proof packaging, with five sheets per packet.

**Test Methods: TAPPI T822.**

## Test 261: Short Span Compression Strength of Medium (STFI)

Participants will test weekly to determine the short span compression (STFI) of the medium samples.

Each test shipment includes four packets of randomized, pre-conditioned 23 lb. medium in moisture-proof packaging, with five sheets per packet.

**Test Methods: TAPPI T826.**



# Test Listings and Methods (cont.)

## Test 280: Autoline

Participants will submit data for any or all of the following properties in accordance with their respective methods: Mullen Burst (TAPPI T807), STFI (TAPPI T826), Roughness Stylus (TAPPI T575), Roughness Sheffield (TAPPI T538), and Air Resistance Gurley (TAPPI T460). Submitted data will be analyzed and organized in reports alongside participants in the standalone tests.

Each test shipment includes four packages of 42 lb. linerboard and four packages of either 52 lb. linerboard (even number cycles) or 31 lb. linerboard (odd number cycles). Each package contains five 12" by 24" randomized, pre-conditioned sheets of linerboard from the same sample lots used in Tests 205, 223, 228, 229, and 237.

**Additional information: This test is only open to labs in the USA (including D.C., but excluding other territories). If your lab is located outside the USA and you would like to enroll, please contact us directly.**

**Test Methods: TAPPI T807, TAPPI T826, TAPPI T575, TAPPI T538, TAPPI T460.**



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