

Containerboard Test Descriptions

201: Box Compression Strength

Frequency: 12 times / year

Participants receive the entire years worth of testing samples (60 boxes) in one shipment, but testing is done on a monthly basis. Labs erect and seal 5 boxes per month and test according to TAPPI T804. Participants must ensure that adequate protection and care is provided for the samples throughout the year.

202 & 203 Edgewise Compression Strength (ECT) of Corrugated Fiberboard

Frequency: 12 times / year

Participants receive ten pieces of corrugated fiberboard (5 x 7 inches) per month and may report results for TAPPI T811 (waxed edge) in Analysis 202, TAPPI T839 (clamp method) in Analysis 203 **or for both methods**. Data from all methods are included in the analysis. A breakdown by method is available on the Web Summary report, located on Containerboard section of the CTS Website.

205-207: Mullen Burst of Linerboard

Frequency: 48 times / year

Participants receive four packages of 42 lb. linerboard every month. In addition, four packages of 69lb. linerboard (Test 206) are sent on even months, and four packages of 36 lb. linerboard (Test 207) are sent on odd months. Each package is labeled with the sample weight and contains five 6" by 8" sheets. One of the four packages is tested every week according to TAPPI T807. Samples are cut in the machine direction (long direction).

215-217: Ring Crush Strength of Linerboard

Frequency: 48 times / year

Participants receive four packages of 42 lb. linerboard every month. In addition, four packages of 69lb. linerboard (Test 216) are sent on even months, and four packages of 36 lb. linerboard (Test 217) are sent on odd months. Each package is labeled with the sample weight and contains five 6" by 8" sheets. One of the four packages is tested every week according to TAPPI T822 (Rigid Support Method). Samples are cut in the machine direction (long direction).

223-225: Short Span Compression Strength of Linerboard

Frequency: 48 times / year

Participants receive four packages of 42 lb. linerboard every month. In addition, four packages of 69lb. linerboard (Test 224) are sent on even months, and four packages of 36 lb. linerboard (Test 225) are sent on odd months. Each package is labeled with the sample weight and contains five 6" by 8" sheets. One of the four packages is tested every week according to TAPPI T826 (Short Span Compressive Strength of paperboard). Samples are cut in the cross machine direction either 15mm or ½ inch wide.

228: Roughness Stylus

Frequency: 12 times / year

Participants receive one package of 42lb. linerboard each month. The package is labeled with sample code and contains five 4.25" by 11" sheets. Laboratories test according to the instrument manufacturers instructions.

231: Internal Bond Strength of Linerboard

Frequency: 12 times / year

Participants receive one package for testing every month. Each package contains five 6" by 8" sample pieces of 42lb linerboard. Test pieces are cut 2.5 cm (1in.) wide and 16.5 (6.5in.) long. Pieces are cut from the center of the sheets with the length parallel to long direction of the sheet, and then tested according to TAPPI T569. This test is applies to both modified and classical Scott Bond mechanics.

234: Slide Angle, Inclined Plane Method

Frequency: 12 times / year

Participants receive one package for testing every month. Each package contains five 6" by 8" sample pieces of 42lb linerboard. The 8" side is parallel to the machine direction. One sled and one base piece are cut from each sample sheet, so that the long edge of the samples is the test direction and then tested following TAPPI 815.

237: Air Resistance: Gurley Method, Linerboard

Frequency: 12 times / year

Participants receive one package for testing every month. Each package contains five 6" by 8" sample pieces of 42lb linerboard. Testing is done in accordance with TAPPI T460. One determination is made on the felt side, followed by one determination on the wire side for each sample piece.

240: Flat Crush Strength of Medium (CMT)

Frequency: 48 times / year

Participants receive four packages for testing every month. Each package contains five 6" by 8" sample pieces of 26 lb corrugated medium. Two specimens are cut from each sheet, and tested in accordance with TAPPI Method T809. One package is tested every week.

250: Fluted Edge Crush of Medium

Frequency: 48 times / year

Participants receive four packages for testing every month. Each package contains five 6" by 8" sample pieces of 26 lb corrugated medium. Cut two specimens from each sheet, and test in accordance with TAPPI Method T824, Fluted Edge Crush of Corrugating Medium, while referring to TAPPI Method T809 for details on the fluting of the medium specimens. One package is tested every week.

255: Ring Crush Strength of Medium

Frequency: 48 times / year

Participants receive four packages for testing every month. Each package contains five 6" by 8" sample pieces of 26 lb corrugated medium. Two specimens from each sheet are cut and tested and tested one specimen with the wire side to the outside, and one with the wire side to the inside. One of the four packages is tested every week according to TAPPI Method T822, Ring Crush of Paperboard (Rigid Support Method).

261: Short Span Compression Strength of Medium (STFI)

Frequency: 48 times / year

Participants receive four packages for testing every month. Each package contains five 6" by 8" sample pieces of 26 lb corrugated medium. Each package is labeled with the sample weight and contains five 6" by 8" sheets. One of the four packages is tested every week according to TAPPI T826 (Short Span Compressive Strength of paperboard). Samples are cut in the cross machine direction either 15mm or ½ inch wide