



National Bureau of Standards
Certificate
Standard Reference Material 1810
Linerboard
Standard for Tape Adhesion Testing

This Standard Reference Material is intended as a uniform source of linerboard for use with ASTM Designation D2860, Procedure A – Adhesion of Pressure-Sensitive Tape to Fiberboard at 90 Degree Angle and Constant Stress.

Based on available test information, two test results (each based on 5 specimens - using tape from the same roll, and tested in accordance with Procedure A of D2860) should agree with each other within 50 percent of the average test result at least 95 percent of the time.

Certification of the linerboard is based on information developed by the Tape Task Group of ASTM Committee D-10 on Packaging.

Washington, D.C. 20234
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J. Paul Cali, Chief
Office of Standard Reference Materials

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INSTRUCTIONS FOR USING STANDARD REFERENCE MATERIAL 1810

With Procedure A of ASTM Designation D2860

Adhesion of Pressure-Sensitive Tape to Fiberboard at

90 Degree Angle and Constant Stress

Standard Reference Material 1810, Linerboard, is issued in sealed packages. Open the sealed package only in a room maintained in accordance with ASTM E171 [73.4 ± 3.6 °F (23 ± 2 °C) and $50 \pm 2\%$ RH]. Unless resealed, the package should always remain in the controlled temperature and humidity room. After opening the sealed package, remove at least 5 linerboard sheets. Handle the sheets by the edges only. Allow only the unprinted side to touch the table top or other foreign surface. The printed side of the linerboard sheet is the side used in the test. Condition all sheets at least 24 hours prior to testing (see ASTM D2860).

Each linerboard sheet provides sufficient material for 16 measurements. Cut 1-inch wide strips parallel to the 11-1/2 inch dimension of the linerboard sheet. This will give a strip 1 inch by 11-1/2 inches with the machine direction running across the 1 inch dimension. Cut each strip in half to give individual test strips 1 inch by 5-3/4 inches. (This may differ slightly from the size specified in D2860.) Place all strips from any one linerboard sheet in the same envelope.

To conduct a complete determination on one roll of tape, take 5 tape specimens from the same roll and 5 linerboard strips, one from each of 5 envelopes. Do not remove a linerboard strip from an envelope before preparing the test.

Remove at least three laps of tape from the roll before taking tape specimens. Lightly sand the backing of the tape on the roll with a 300-grit abrasive paper to remove the easy-unwind treatment from the tape backing. This will improve the adhesion of the test tape to the double-coated tape used to mount the test tape to the rigid panel.

If for any reason any specimen is considered void (see D2860), select at random another linerboard strip from any envelope. If more than one specimen is voided, select at random replacement linerboard strips from a corresponding number of different envelopes.