

**STAINING TEST FOR ADHESIVES AND
PRESSURE SENSITIVE TAPES****Application**

This procedure is used to test adhesives and pressure sensitive tapes for staining development when used in trim assemblies. Assemblies of the materials are exposed to heat and artificial sunlight to simulate conditions under which staining may occur.

Apparatus Requires**Fluorescent Sunlamp Cabinet** - or equivalent

A modified oven equipped with four Westinghouse FS 20 T-12 fluorescent sunlamps is required. The oven shall be maintained at 63 +/- 2 °C for this test.

Oven

Grieves Hendry, Model PL-1, 1000 watts
O.D. - 750 mm wide, 625 mm deep, 600 mm high
I.D. - 712 mm wide, 600 mm deep, 512 mm high
110 V, AC, 50 - 60 cycle, single phase motor

The oven is to be equipped with thermostat control and red pilot light. An oven stand is optional.

Sunlamp Fixture

20 gage steel box with screw cover
Two two-lamp, 20 watt high power factor ballasts
Four fluorescent starter assemblies
Cover - 20 gage steel with Alzak aluminum reflector overlay
Four pairs fluorescent lamp holders
Rear of box shall be provided with four 1/4 - 20 mounting studs and screened ventilation openings
Four FS 20 T-12 fluorescent sunlamps

The above sunlamp fixture to be completely installed in oven.

Date	Action	Revisions
2000 11 13	Revised	Editorial – no technical change A. Cockman
1992 08 10		

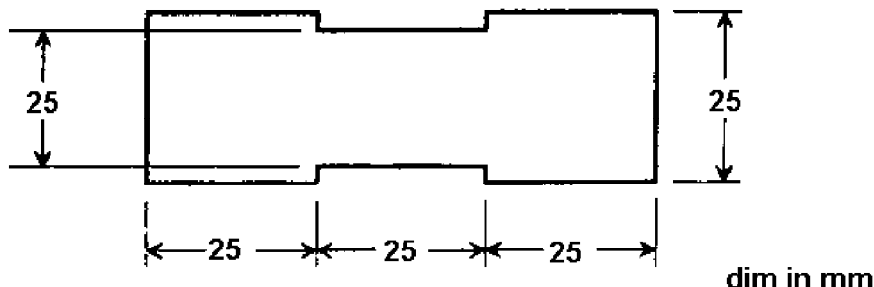
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Page 1 of 3

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Adhesive Film Applicator

A scraper similar to the one shown below is used to spread the adhesive in a film 25 mm wide and 0.25 mm thick.



Material - Low Carbon Steel

Roller

A steel roller 82.5 +/- 2.5 mm diameter and 45 +/- 1.0 mm in width, covered with rubber approximately 6 mm thick and having a durometer hardness of 80 +/- 5. The weight of the roller proper which applies pressure to the specimen shall be so constructed that the weight of the handle is not added to the weight of the roller during use. (ASTM D 1000).

Steel Panels

Phosphate coated only - 75 x 200 mm

Phosphate coated, primed and enameled - 75 x 200 mm

Prepare panels as described in Ford Laboratory Test Method BI 109-01. Use method "C" for painted panels.

Conditioning and Test Conditions

All test values indicated herein are based on material conditioned in a controlled atmosphere of 23 +/- 2 °C and 50 +/- 5 % relative humidity for not less than 24 h prior to testing and tested under the same conditions unless otherwise specified.

Procedure

Tapes

1. Prepare freshly enameled steel panels with White, or Light Blue, or their replacement colors. Prime and enamel panels as described in Ford Laboratory Test Method BI 103-02, Method "C".
2. Place a tape specimen 25 x 175 mm on the center portion of each of the painted panels. Use **light** finger pressure to give intimate contact and then roll once forward and back with the 2 kg roller.
3. Mask off 50 mm of the tape and panel with aluminum foil and expose the assemblies in the sunlight cabinet at a distance of 300 mm from the lamps for the time required by the material standard.