

**STAINING OF TRIM MATERIAL IDENTIFICATION MARKINGS****Application**

This procedure is used to determine the tendency of inks, dyes or other substances used on trim materials, to migrate through trim assemblies and cause discoloration or staining of vinyls, fabrics or other trim cover materials.

**Materials and Apparatus Required****Mechanical Convection Oven**

conforming to ASTM E 145, Type II-A, and capable of maintaining a minimum oven space of 2 L/100 cm<sup>2</sup> of specimen size

**Wet Steam Supply**

capable of maintaining a line pressure of 138 +/- 35 kPa.

**Xenon Arc Weatherometer**

See SAE J 1885 for calibration details, exposure method and equipment source.

**Stainless Steel or Brass Weights**

2.2 kg each measuring 76 x 55 mm rectangular base dimension.

**Plate Glass**

3.2 mm thick and 76 mm long by 51 mm wide.

Vinyl, fabric or other trim cover material, foundation material or bonded assembly that is designated on the engineering drawing, pattern, or FAB chart.

**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.

| Date       | Action  | Revisions                                  |
|------------|---------|--------------------------------------------|
|            |         |                                            |
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**Procedure**

**Method A - Paddings, Foams and Foundation Materials**

1. Cut two test samples, 150 x 150 mm, of production representative padding, foam or foundation material (at the thickness designated on engineering drawing or ESM specification, up to 13 mm maximum, with the identification marking in the center of the test sample.
2. If more than one color or type of identification is employed, each shall be tested separately.
3. Cut a 250 x 250 mm section of the lightest released color of production representative fabric, vinyl, or other cover material. The 250 x 250 mm cover material shall be selected from an area that is devoid of any identification marking.
4. Staple the 250 x 250 mm fabric or vinyl around the 150 x 150 mm sample at only two opposite ends of the sample (with the vinyl or fabric face surface up), so that the vinyl or fabric back surface is in contact with the test sample's identification ink or marking.
5. Place the stapled composite on a screen, with the vinyl or fabric cover material face up, and steam the cover material's entire face surface with wet steam for 30 seconds, holding the nozzle 50 to 80 mm above the cover material's face surface.
6. Apply the glass plate then the 2.3 kg weight (over the plate glass) to a 75 x 50 mm area of the cover material's face surface at the center surface of the composite test sample, so that direct contact is maintained between the stapled cover material and test sample's identification marking.
7. Place the composite, with the weight and glass plate on the composite's center area, in a convection oven for 8 hours at 120 +/- 2 °C.
8. Remove the weight and glass plate and expose the composite in the Xenon Arc Weatherometer for 75.2 kJ/m<sup>2</sup>.
9. Remove and repeat steps 5, 6, 7 and 8.
10. Examine the face surface of the cover material for any evidence of migration of the test sample's identification ink, dye, etc., into the surface of the cover material.