



TAPE, POLYTETRAFLUOROETHYLENE - PRESSURE SENSITIVE

ESA-M3G73-A

1. SCOPE

The material defined by this specification is a pressure sensitive polytetrafluoroethylene tape coated on one side.

2. APPLICATION

This specification was released originally for material used as an anti-friction surface for the steering column instrument panel opening cover.

3. REQUIREMENTS

3.0 STANDARD REQUIREMENTS FOR PRODUCTION MATERIALS

Material suppliers and part producers must conform to the Company's Standard Requirements For Production Materials (WSS-M99P1111-A).

3.2 THICKNESS 0.0025 - 0.004 in
(0.063 - 0.10 mm)

3.3 BREAKING STRENGTH, min 20 oz/in (219 N/m) width
(ASTM D 1000)

Elongation, max 200%

3.4 ADHESION TO STEEL, min 20 oz/in (219 N/m) width
(ASTM D 1000)

3.5 ADHESION TO PAINTED METAL, min 25 oz/in (274 N/m) width
(ASTM D 1000)

3.6 AGED ADHESION, Painted Metal, min 30 oz/in (328 N/m) width

Test Method: Prepare bonded samples as described in ASTM D 1000. Expose the samples in a mechanical convection oven maintained at 70 +/- 1 °C for 72 h. Permit samples to cool at 23 +/- 2 °C for 2 h minimum prior to test.

3.7 LOW TEMPERATURE FLEXIBILITY Shall not crack nor show
any evidence of failure.

Test Method: Samples approximately 6 in (150 mm) in length shall be conditioned for 16 h at -29 °C and shall then be bent 180° (3.1 rad) on itself.

Date	Action	Revisions
2005 09 26	Revised	Inserted 3.0; Deleted 3.1, 3.11, 4
1979 01 10		Metricated, Renumbered & Retyped CAH2 823385
1964 02 27	Released	AS2-442



3.8 MIGRATION STAIN

None

Test Method: The material shall be placed in intimate contact with a freshly painted light colored (white or blue) enameled panel and also light colored vinyl trim material, ESB-M2F37, and subjected to 200 h in the Westinghouse Fluorescent Sunlight cabinet described in FLTM BO 115-01.

3.9 ODOR

No offensive odor in the "as received" condition or after the heat aging test outlined in para. 3.6.

3.10 UNWIND PULL, max

20 oz/in (219 N/m) width

5. GENERAL INFORMATION

This information is for direction of the user and is not a requirement for the supplier.

The useful temperature range for this material is -53 to 205 °C continuous. Intermittent use up to 260 °C is possible. Users should note, however, that above 205 °C, the film gives off small quantities of toxic fumes and ventilation must be provided.