



SPRAY ALIPHATIC POLYURETHANE SKIN

WSS-M4D983-A

1. SCOPE

The material defined by this specification is a spray aliphatic polyurethane skin used for instrument panels and other interior applications.

2. APPLICATION

This specification was released originally to be used as flexible molded skin for an instrument panel with a urethane foam and hard plastic substrate.

3. REQUIREMENTS

This material must also meet the requirements in WSS-M15P45-A or WSS-M15P4-E and any applicable SDS including but not limited to the IP and PAB SDS.

Material specification requirements are to be used for initial qualification of materials.

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).

3.4 TEST SPECIMEN

3.4.1 Preparation of Test Specimens

Unless otherwise specified, all tests shall be carried out on specimens die cut from flat skins.

3.4.2 Density (+/- 0.05) g/cm³ 0.95
(ISO 1183, Method A)

3.4.3 Hardness, Durometer A 75
(ISO 868, 15 s dwell, +/- 5)

3.4.4 Tensile Strength at Max Load, min 4.0 MPa
(ISO R 527, Type 2/Type 3, 100 mm/minute test speed machine and transverse direction)

3.4.4.1 Elongation at Break, min 70%
(Test Method according to para 3.4.4)

3.4.5 Cold Flexibility at -40 °C No cracks
(180° bend over a 20 +/- 1mm diameter mandrel, sample size 50 x 150 +/- mm)

Date	Action	Revisions
2006 07 26	Revised	Inserted 3.0; Deleted 3.1, 3.2, 3.3, 3.9, 3.10 & 4
2002 04 22	Activated	



**3.5 FOGGING**

(SAE J1756, 3 h at 100 °C heating, 21 °C cooling plate, post test conditioning 1 h and 16 h)

Fog Number, min 70

Formation of clear film, droplets or crystals is cause for rejection.

3.6 FLAMMABILITY

(ISO 3795)

Burn Rate, max 100 mm/minute

The specimen size required for material approval is approximately 355 x 100 x extruded cover stock thickness not to exceed 13 mm. The thickness must be documented on the report.

3.7 ODOR

(FLTM BO 131-01)

Rating 2

3.8 MATERIAL PERFORMANCE TESTING

The materials approved to this specification must meet the performance specification WSS-M15P45-A for Instrument Panels, WSS-M15P4-E for door panels and other interior applications, and the applicable SDS such as the IP-SDS. If the final assembly contains an integrated airbag the material must meet the PAB-SDS and Restraints must be contacted for all requirements. Once documentation is provided that this testing is complete the material will be added to the approved source list.

5. GENERAL INFORMATION

The information given below is provided for clarification and assistance in meeting the requirements of this specification.

5.1 RECYCLING CODE

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