

ENGINEERING MATERIAL SPECIFICATION

Material Name

Specification Number

**FELT, PAPER - ASPHALT SATURATED - PRESSURE SENSITIVE
ADHESIVE ONE SIDE**

▽ **ESB-M2E73-D**

1. SCOPE

The material defined by this specification is a paper felt, half asphalt saturated with a pressure sensitive adhesive on one side.

2. APPLICATION

This specification was released originally for material used as roof pad vibration dampers for the 1984 LTD/Marquis.

3. REQUIREMENTS

The requirements herein are based on material without release paper unless otherwise specified.

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 WEIGHT (ASTM D461)

Shall be specified
on the engineering
drawing.

3.3 DENSITY, g/cc (ASTM D461, weight per unit area divided by thickness of conditioned specimens)

0.55 +/- 0.05

3.4 EXTRACTABLE MATTER, % (ASTM D461, Trichloroethylene Method)

18 +/- 6

3.5 STIFFNESS, avg, MPa (ASTM D747, three WMD and three AMD 25 x 100 mm specimens, 50 mm span, M=2.0, release paper side down, 26 MPa on thickness gage presser foot)

125 +/- 55

Date	Action	Revisions
2003 01 31	Revised	Para 3.0 inserted ; Para 3.1, 3.12, 3.13, 4 deleted
1984 08 14	3.5	Revised CDØ1-RD525988
1984 02 10		Released CDN1-ED484578-1

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3.6 DAMPING LOSS FACTOR, min 0.02
(ASTM E756)

Parameters:

- Test strips to be 300 x 20 x 0.76 mm
- Bond material to test strip by rolling once forward and backward with a 2.3 kg roller
- Average first mode on either side of 200 HZ

3.7 OVERLAP SHEAR STRENGTH, avg, N 45 +/- 18
(ASTM D 1002)

Bond five specimens to clean cold rolled steel by lightly placing a 454 g weight on top of the 645 mm² overlap area for 15 seconds. Remove the weight and allow the specimens to rest for 24 h before testing. Pull at 1.27 mm/min crosshead speed.

3.8 HOLDING POWER Shall not disbond
(FLTM BV 120-2)

Expose three specimens at 23 +/- 2 °C and three specimens at 121 +/- 2 °C.

3.9 FLEXIBILITY AT 23 °C
(FLTM BN 102-01, steps 4 and 5 only)

No cracking when bent 180° around a 51 mm mandrel with adhesive side to the outside.

▽ 3.10 FLAMMABILITY

In order to comply with Federal Motor Vehicle Safety Standard No. 302, the materials, portions of components, and composites shall not burn, or transmit a flame across its surface, at a rate of more than 101 mm per min. To demonstrate compliance, the sample size and method of testing shall be in accordance with FLTM BN 24-2.

3.11 FLAMMABILITY TEST PROGRAM

Materials, portions of components, and composites governed by this specification must also comply with the requirements of ▽ ES-D3AB-11014-AA.