



Engineering Material Specification

Material Name

Specification Number

**BARRIER, ETHYLENE VINYL ACETATE, MOLDABLE
(SPECIFIC GRAVITY 2.1)**

ESB-M5G26-F

1. SCOPE

The material defined by this specification is a moldable, filled, ethylene vinyl acetate.

2. APPLICATION

This specification was released originally for material used as a sound transmission barrier on massback carpet systems.

3. REQUIREMENTS

3.1 The barrier material must always be bonded 100 percent to another material to form a composite that would comply with flammability requirements (Reference: Flammability paragraph 3.15).

3.2 STATISTICAL PROCESS

Suppliers must conform to the requirements of Ford Quality System Standard Q-101. A mutually acceptable Control Plan as described therein is required for material/source approval. Appropriate statistical tools must be used to analyze process/product data so that variation in the final product is continuously reduced.

3.3 CONDITIONING

All test values indicated herein are based on materials conditioned in a controlled atmosphere of 23 +/- 2 C and 50 +/- 5% relative humidity for 24 h prior to testing and tested under the same controlled conditions.

3.4 COLOR

As specified on engineering drawing

3.5 THICKNESS

(ASTM D 461, 6.4 mm
diameter foot, 85 g load)

As specified on engineering drawing

Date	Release No.	Release/Revision
1987 09 03	VS1-6000-2 ✓	Released

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Jul 84 **3948-a**

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- 3.6 SPECIFIC GRAVITY (ASTM D 792) 2.1 +/- 10%
- 3.7 WEIGHT (ASTM D 461) As specified on engineering drawing
- 3.8 Tensile Strength, min (ASTM D 412, Die "A")
- WMD 3.0 MPa
AMD 2.2 MPa
- 3.9 TEAR STRENGTH, min (ASTM D 624, Die "C")
- WMD 22 kN/m
AMD 16 kN/m
- 3.10 COLD FLEXIBILITY No cracking
- Test method: Condition 50 x 150 mm samples and a 50 mm diameter mandrel at -29 C for a minimum of 4 h. Bend sample 180 deg around the mandrel.
- 3.11 HEAT RESISTANCE Must pass
- Test Method: Samples (size as in para 3.10) aged at 88 C for a minimum of 4 h and then tested for cold flexibility (para 3.10).
- 3.12 Odor (SAE J 1351) Not objectionable
- Test Method: Samples heated in a closed container for a minimum of 2 h at 100 C.
- 3.13 FOGGING, min (FLTM B-116-3) 60
- 3.14 SOUND TRANSMISSION LOSS (SAE J 1400)
- Must equal or exceed values obtained for the initially approved sample.
- 3.15 ESB-M5G26-F FLAMMABILITY, max 101 mm/min
Tested as composite

This material must always be bonded 100% at all points to form a composite (localized or spotty adhesion is unacceptable). The composite 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.

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