



Engineering Material Specification

Material Name

Specification Number

FABRIC, VINYL COATED - CARPET BINDING

▽ ESB-M1G158-B

1. SCOPE

The material defined by this specification is a bias cut vinyl coated fabric (ESB-M2F67 quality).

2. APPLICATION

This specification was released originally for material used as sewn edge binding for automotive carpet employed for trim applications on door and quarter panels.

3. REQUIREMENTS

3.1 CONDITIONING

All test values indicated herein are based on material conditioned in a controlled atmosphere of $23 \pm 2^{\circ}\text{C}$ and $50 \pm 5\%$ relative humidity for 24 h prior to testing and tested under the same controlled conditions.

3.2 APPEARANCE

The color, pattern, and finish shall match the approved Design Center master sample, or shall be as specified on the engineering drawing.

3.3 CONSTRUCTION

The material shall consist of a 1-3/4 in (44 mm) width bias cut (30 to 60° angle from selvage edge) ▽ ESB-M2F67B and sewn or cemented (ESB-M2G82, or equivalent adhesive) as required.

3.4 MILDEW RESISTANCE

Production roll of the binding shall exhibit no evidence of mildew growth after 7 days at $98 \pm 2\%$ relative humidity $38 \pm 1^{\circ}\text{C}$.

3.5 ▽ ESB-M1G158-B FLAMMABILITY

▽ 3.5.1 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 4 in (101 mm) per min. To demonstrate compliance, the sample size and method of testing shall be in accordance with FLTM BN 24-2.

Date	Para. No.	Revisions
1979 07 11		Metricated. Renumbered and Retyped CAHL-RD572066-22 
1971 08 18		Released AB1-30215

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3.5.2 Performance - Environmental Aging

All materials, portions of components, and composites defined by this specification that have not been treated, modified or reformulated and exceed a max burn rate of 3.0 in (76 mm) per min as specified by the Flammability Lot Sampling Plan of FLTM BN 24-2, must be evaluated for permanency of the materials' flame retardant properties per ESB-M25P3-A according to the accelerated environmental aging requirements applicable to the basic material category of this particular specification.

Any material, portions of components, and composites defined by this specification that have been treated, modified or reformulated to conform to Flammability Lot Sampling Plan of FLTM BN 24-2, regardless of max burn rate, must be evaluated for both permanency of materials' flame retardant properties and changes in mechanical, chemical and physical properties per ESB-M25P3-A applicable to the basic materials category of this particular specification.

3.5.3 Flammability Test Program

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

3.6 SUPPLIER'S RESPONSIBILITY

Material supplied to this specification must be equivalent to that originally approved. Changes in formulation or processing shall not be made without prior approval as described in Supplier Procedure I-A.

4. APPROVAL OF SUPPLIERS

Suppliers to this specification must be approved by the affected product engineering office. Procedure for gaining approval of a specific material to a new/existing ES-M specification is contained in Supplier Procedure I-A. Approved new suppliers will be added to the Engineering Materials Approved Source List.

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