ENGINEERING MATERIAL SPECIFICATION

Material Name	Specification Number
FABRIC, AVON III PATTERN, KNITTED, UNLAMINATED	WSS-M1H695-A
FABRIC, AVON III PATTERN, KNITTED, 3 mm	WSS-M1H695-B1
FABRIC, AVON III PATTERN, KNITTED, 6 mm	WSS-M1H695-B2
FABRIC, AVON III PATTERN, KNITTED, 3 mm	WSS-M1H695-C1
FABRIC, AVON III PATTERN, KNITTED, 6 mm	WSS-M1H695-C2
FABRIC, AVON III PATTERN, KNITTED, HFW	WSS-M1H695-G
FABRIC, AVON III PATTERN, KNITTED, HFW	WSS-M1H695-H
FABRIC, AVON III PATTERN, KNITTED, HFW	WSS-M1H695-J
FABRIC, AVON III PATTERN, KNITTED, HFW	WSS-M1H695-K

1. SCOPE

The material defined by this specification is a 3 bar 28 gauge, warp knitted, simulated velour, polyester bodycloth.

2. APPLICATION

WSS-M1H695-A is used for moulded headrests and also adhesive coated for use on inner door panels.

WSS-M1H695-B1, B2, C1, C2, are used for seat wearing surfaces.

WSS-M1H695-G, H, J, K, are used for inner door and quarter trim panels and/or as specified on Engineering Drawings.

AVON III PATTERN

WSS-M1H695-A	Unlaminated
WSS-M1H695-B1	3.0 mm, flame laminated to polyether foam and knitted fabric
WSS-M1H695-B2	6.0 mm, flame laminated to polyether foam and knitted fabric
WSS-M1H695-C1	3.0 mm, flame laminated to polyester foam and knitted fabric (EAO use only)
WSS-M1H695-C2	6.0 mm, flame laminated to polyester foam and knitted fabric (EAO use only)
WSS-M1H695-G	HF-weldable vinyl film, adhesive bonded, or an engineering approved alternative
WSS-M1H695-H	HF-weldable acrylic backcoating applied by the doctor-knife spreading technique, or an engineering approved alternative
WSS-M1H695-J	HF-weldable vinyl backcoating applied by the doctor-knife spreading technique, or an engineering approved alternative
WSS-M1H695-K	HF-weldable polyurethane backcoating applied by the doctor-knife spreading technique, or an engineering approved alternative

Date	Action	Changes
1996 04 22	Activated	N. Komatsu

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3. REQUIREMENTS

In addition to the requirements listed herein, the fabric or laminate shall meet all requirements of WSB-M8P1-I.

3.1 QUALITY SYSTEM REQUIREMENTS

Material suppliers and past producers must conform to Quality System Requirements, QS-9000. Material specification requirements are to be used for initial qualification of materials. A Control Plan for ongoing production verification is required. This plan must be reviewed and approved by the relevant Ford Materials activity and/or Ford Supplier Technical Assistance (STA) prior to production parts submission. Appropriate statistical tools must be used to analyze process/product data and assure consistent processing of the materials.

Part producers using this material in their products, must use Ford approved materials and must conform to a process control plan which has been approved by STA and/or the relevant Materials Activity.

3.2 INFRARED SPECTROPHOTOMETRY AND/OR THERMAL ANALYSIS

Ford Motor Company, at its option, may conduct infrared and/or thermal analysis of material/parts supplied to this specification. The IR spectra and thermograms established for initial approval shall constitute the reference standard and shall be kept on file at the designated material laboratory. All samples shall produce IR spectra and thermograms that correspond to the reference standard when tested under the same conditions.

3.3 CONDITIONING AND TEST CONDITIONS

All test values indicated herein are based on material conditioned in a controlled atmosphere of 23 +/- 2 C and 50 +/- 5 % relative humidity for not less than 24 h prior to testing and tested under the same conditions unless otherwise specified.

3.4 FABRIC CONSTRUCTION

3.4.1	Fabric Count, +/- 5 % tolerance (ASTM D 3887)	
	Wales	145 wales/10 cm
	Courses	240 courses/10 cm
3.4.2	Fabric Weight, g/m2, range (FLTM BN 106-01)	305 - 375 (340 average)

3.5 COMPOSITION (ASTM D 629)

Fabric	100 % polyester

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