



ENGINEERING MATERIAL SPECIFICATION

Material Name

Specification Number

FABRIC, FLOW PATTERN, WOVEN JACQUARD, UNLAMINATED	WSD-M1H578-A
FABRIC, FLOW PATTERN, WOVEN JACQUARD, 3 mm	WSD-M1H578-B1
FABRIC, FLOW PATTERN, WOVEN JACQUARD, 6 mm	WSD-M1H578-B2
FABRIC, FLOW PATTERN, WOVEN JACQUARD, 3 mm	WSD-M1H578-C1
FABRIC, FLOW PATTERN, WOVEN JACQUARD, 6 mm	WSD-M1H578-C2
FABRIC, FLOW PATTERN, WOVEN JACQUARD, 6 mm	WSD-M1H578-D2
FABRIC, FLOW PATTERN, WOVEN JACQUARD, 3 mm PU	WSD-M1H578-F1
FABRIC, FLOW PATTERN, WOVEN JACQUARD, 6 mm PU	WSD-M1H578-F2
FABRIC, FLOW PATTERN, WOVEN JACQUARD, HFW	WSD-M1H578-G
FABRIC, FLOW PATTERN, WOVEN JACQUARD, HFW	WSD-M1H578-H
FABRIC, FLOW PATTERN, WOVEN JACQUARD, HFW	WSD-M1H578-J
FABRIC, FLOW PATTERN, WOVEN JACQUARD, HFW	WSD-M1H578-K

1. SCOPE

The material defined by this specification is a woven jacquard polyester face fabric which can be flame laminated to polyester or polyether urethane foam and backed with either a knitted fabric or polyurethane film. It can be backed with HFW weldable backcoating.

2. APPLICATION

This specification was released originally for material used as an interior trim fabric.

WSD-M1H578-A is used for molded headrests and also adhesive coated for use on inner door panels.

WSD-M1H578-B1, B2, C1, C2, F1 and F2, are used for seat wearing surfaces.

WSD-M1H578-D2 is used for adhesively bonded door and quarter trim panel applications.

WSD-M1H578-G, H, J and K, are used for inner door, quarter trim panels and/or as specified on Engineering Drawings.

FLOW PATTERN

WSD-M1H578-A	Unlaminated
WSD-M1H578-B1	3.0 mm, flame laminated to polyether foam and knitted fabric
WSD-M1H578-B2	6.0 mm, flame laminated to polyether foam and knitted fabric
WSD-M1H578-C1	3.0 mm, flame laminated to polyester foam and knitted fabric (EAO use only)

Date	Action	Changes
1997 10 30	Revised	Rev. para 2, 3.4.2, 3.14.3; Updat. N. J. Komatsu
1996 04 22	Revised	Revised para 3, 3.4.2, 3.9, 3.13, 3.14.3 NJK
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WSD-M1H578-C2	6.0 mm, flame laminated to polyester foam and knitted fabric (EAO use only)
WSD-M1H578-D2	6.0 mm, flame laminated to polyether foam
WSD-M1H578-F1	3.0 mm, flame laminated to polyester foam and polyurethane film (EAO use only)
WSD-M1H578-F2	6.0 mm, flame laminated to polyester foam and polyurethane film (EAO use only)
WSD-M1H578-G	HF weldable vinyl film adhesive bonded or an engineering approved alternative
WSD-M1H578-H	HF-weldable acrylic backcoating applied by the doctor-knife spreading technique, or an engineering approved alternative
WSD-M1H578-J	HF-weldable vinyl backcoating applied by the doctor-knife spreading technique, or an engineering approved alternative
WSD-M1H578-K	HF-weldable PU backcoating applied by the doctor-knife spreading technique, or an engineering approved alternative

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 part 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 3775)

Warp	200 ends/ 10 cm
Weft	180 picks/ 10 cm

3.4.2 Fabric Weight, range
(FLTM BN 106-01) 320 - 360 g/m23.5 COMPOSITION
(ASTM D 629)

Fabric	100 % polyester
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3.6 YARN CONSTRUCTION
(ASTM D 1244)

Warp	760 dtex f128 (polyester, bright, air texturized, MLB section)
Weft	760 dtex f192 (polyester, dull, air texturized, round section)

3.7 METHOD OF DYEING Yarn Dyed or as approved by
Materials Engineering3.8 FINISHING OPERATIONS As approved by Materials
Engineering

3.9 REQUIREMENTS FOR POLYESTER FOAM As specified in WSD-M2D243-A4

3.10 REQUIREMENTS FOR POLYETHER FOAM As specified in WSD-M2D243-A2

3.11 REQUIREMENTS FOR THE BACKING
FABRIC (C1, C2) As specified in WSD-M9H136-A3.12 REQUIREMENTS FOR THE BACKING
FABRIC (B1, B2) As specified in WSD-M9H111-B3.13 REQUIREMENTS FOR THE
POLYURETHANE BACKING FILM As specified in WSD-M99H134-B1