



ENGINEERING MATERIAL SPECIFICATION

Material Name

Specification Number

FABRIC, WAVES, JACQUARD WOVEN

WSS-M1H713-A

1. SCOPE

The material defined by this specification is a woven jacquard polyester face fabric.

2. APPLICATION

This specification was released originally for material used as an interior trim fabric for the 1998 MY BE146.

3. REQUIREMENTS

In addition to the requirements listed herein, the fabric shall meet all requirements of WSS-M8P18-A1/A2/A3/A4 as applicable.

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.

Date	Action	Changes
1996 11 15	Activated	N. J. Komatsu

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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	242 ends/10 cm
Weft	180 picks/10 cm

3.4.2 Fabric Weight, range
(FLTM BN 106-01) 305 - 335 g/m23.5 COMPOSITION
(ASTM D 629)

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

Warp	760 dtex resultant f196 (polyester, semi-dull, air texturised, round section)
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Weft	760 dtex resultant f128 (polyester, bright, air texturised, trilobal section)
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3.7 METHOD OF DYEING Yarn dyed and spun or as approved by Materials Engineering

3.8 FINISHED OPERATIONS As approved by Materials Engineering

3.9 FLAMMABILITY
(ISO 3795/SAE J369)

Burn Rate, max	100 mm/minute
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Note: not required on face fabric when used as a fully bonded composite.

3.18 ADDITIONAL REQUIREMENTS

Specific requirements for material and/or manufactured parts shall be specified on the Engineering drawing, Engineering parts specification and/or performance specification. All critical areas with respect to these properties shall be clearly designated on the engineering drawing.