Ford Motor Company

ENGINEERING MATERIAL SPECIFICATION

Material Name	Specification Number
VINYL, KNITTED - REINFORCED - BISCAY PATTERN	**∇ ESB-M2F108-B1**
VINYL, KNITTED - REINFORCED - DENVER PATTERN	**∇ ESB-M2F108-B2**

1. SCOPE

The materials defined by this specification are slit polyvinyl chloride film, multifilament nylon reinforced knit fabrics of good quality and uniform composition, manufactured on a 5 cut circular knitting machine.

2. APPLICATION

These specifications were released originally for material used as an interior trim vinyl for covering automotive seat cushions and seat backs.

3. REQUIREMENTS

∇ ESB-M2F108-B1 was originally designated ∇ ESB-M2F108-B, and where ∇ ESB-M2F108-B is indicated on engineering drawings, patterns, specifications, etc., ∇ ESB-M2F108-B1 will be understood.

3.0 STANDARD REQUIREMENTS FOR PRODUCTION MATERIALS

Material suppliers and part producers must conform to the Company's Standard Requirements For Production Materials (WSS-M99P1111-A).

3.5 FABRIC CONSTRUCTION

3.5.1 Fabric Count, range
(ASTM D 231)

Wales	24 - 31 wales/100 mm
Courses	47 - 59 courses/100 mm

3.5.2 Fabric Weight, g/m^2, min — 949
(FLTM BN 106-01)

3.5.3 Curling or Distortion

Material which exhibits pattern distortion or which causes lay cutting problems due to curling shall be subject to rejection and returned for correction.

Date	Action	Revision
2003 01 09	Revised	Para 3.0 inserted ; Para 3.1, 3.2, 3.3, 3.3, 3.4, 3.23, 4 deleted
1986 02 14	CAP1-DR535711	Released

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3.5.4	Filling Bow, max (ASTM D 1910)	1 % of fabric width
3.6	**COMPOSITION** (ASTM D 629)	
	Fabric	96 % Polyvinyl Chloride 4 % Nylon
	Face Finish	Vinyl / Acrylic Lacquer
3.7	**YARN CONSTRUCTION** (ASTM D 1244)	
	Backing Yarn - Vinyl Wrapped	
	Vinyl Dimension, mm	Thickness 0.127 +/- 0.008 Width 3.18 +/- 0.64 Folded Width 1.59 +/- 0.32
	Core Yarn	23 tex f 32 59 tpm) (nylon, multi-filament
	Alternate Core Yarn	29 tex f 17 39 tpm (nylon, multi-filament)
3.8	**METHOD OF DYEING**	Pigmented
3.9	**FINISHING OPERATIONS**	Embossed & Topcoated
3.10	**BREAKING STRENGTH, N, min** (ASTM D 1682, Grab Method, 305 mm/min jaw speed, avg. of 5 samples, each direction)	
	Wales	400
	Courses	489
3.11	**SEAM STRENGTH,** N, min (FLTM BN 119-01, avg. of 5 samples, each direction)	
	Wales	445
	Courses	489

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