



ENGINEERING MATERIAL SPECIFICATION

Material Name

File Control No.

Specification Number

FABRIC, LILLE PLAIN, WEFT KNITTED

ESD-M1H493-A7

1. SCOPE

The material defined by this specification is a weft knitted (interlock) polyester fabric with good 2 way stretch properties flame laminated to polyester urethane foam and backed with a polyurethane film.

LILLE PLAIN

ESD-M1H493-A7

2 mm laminate to polyurethane film

2. APPLICATION

This specification was released originally for material used as a cover fabric for formed seat shells and as specified on Engineering drawings.

Note: The material is only suitable for low wear areas fully bonded to a substrate.

3. REQUIREMENTS

3.1 STATISTICAL PROCESS

Suppliers must conform to the requirements of Ford Quality System Standard Q-101. A mutually acceptable Control Plan as described therein is required for materials/source approval. Appropriate statistical tools must be used to analyse process/product data so that variation in the final product is continuously reduced.

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.

Date	Release No.	Release/Revision
1991 07 31	C01089487	Revised clauses 3.7.3. N J Komatsu
1991 06 28	C01089486	Revised clauses 3.7.2 and 3.7.3 N J Komatsu
1990 01 09	C10052972	Released N.J.Komatsu

WP 3948-a

Page 1 of 4

9009160 0036924 671



3.4 REQUIREMENTS FOR FACE FABRIC

3.4.1	Dyeing	Piece dyed
3.4.2	Yarn Size and Type	
	Ground	90 dTex x 48f, Polyester, texturised
	Surface	76 dTex x 24f, Polyester, texturised
3.4.3	Construction, min (ASTM D 3887)	
	Wales	160/10 cm
	Courses	150/10 cm
	Knitting machine gauge	28
3.4.4	Weight, min (FLIM EU-BN 6-1)	230 g/m ²

3.5 REQUIREMENTS FOR POLYESTER FOAM

3.5.1 As specified in SKM-4D9502-A.

3.6 REQUIREMENTS FOR THE POLYURETHANE FILM

3.6.1 As specified in SKM-99H134-A

3.7 REQUIREMENTS FOR THE LAMINATE

Note: In addition to the requirements quoted herein these materials must meet the requirements of General Performance Specification for Seating Fabrics, Polyester SK-M8P9700-A except clauses: SEAM STRENGTH and FLEX FOLD.

3.7.1	Compressed Thickness, range 1 Kg force, circular presser foot, area 645 mm ² , 5 sec dwell	1,6 +/- 0,3 mm
3.7.2	Total Weight, min	370 g/m ²