



ENGINEERING MATERIAL SPECIFICATION

Material Name	File Control No.	Specification Number
FABRIC, POLYESTER/RAYON	SMT5009HE6690	ESD-M9H120-A1
NON WOVEN, ADHESIVE BONDED	SMT5009HE6691	ESD-M9H120-A2
	SMT5009HE6695 DELTA	ESD-M9H120-B1
	SMT5009HE6696 DELTA	ESD-M9H120-B2

1. SCOPE

The material defined by this specification is a polyester/viscose rayon fibre fleece bonded by overall impregnation of an acrylic resin.

2. APPLICATION

This specification was released originally for material used as a reinforcement fabric for moulded seat pad assemblies and/or as specified on Engineering Drawings. The fabric must prevent any squeaking between seat pads and seat frames in service.

3. REQUIREMENTS

All test values indicated herein are based on materials conditioned in a controlled atmosphere of $23 \pm 2^\circ\text{C}$ and $50 \pm 5\%$ relative humidity for 24 h prior to test and tested under the same conditions.

3.1 STATISTICAL PROCESS

Suppliers must conform to the requirements of Ford Quality System Standard Q101. A mutually acceptable Control Plan as described therein is required for material/source approval. Appropriate statistical tools must be used to analyze process/product data so that variation in the final product is continuously reduced.

3.2 WIDTH As defined by Purchasing/Engineering Drawing (ASTM D 1910 Method 12-15)

3.3 COMPOSITION

Fibre	Polyester	45 +/- 5 %
	Viscose Rayon	55 +/- 5 %
Adhesive	Acrylic resin bonding agent	
Fibre to Binder Ratio		70 - 30 nominal

Date	Release No.	Release/Revision
1989 05 31	B/031524TC	Retyped minor changes
1987 01 27	SM/ER4109TC	Released

WP 3948-a

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3.4 WEIGHT g/m² (FLTM EU-BN 6-1)

ESD-M9H120-A1/B1	80 - 100
ESD-M9H120-A2/B2	100 - 120

3.5 BREAKING STRENGTH N, min (ASTM D 1682, Gr Method, Test Speed 300 mm/minute)

ESD-M9H120-A1/B1	WMD	60
	AMD	70
ESD-M9H120-A2/B2	WMD	90
	AMD	100

3.6 TEAR STRENGTH, TRAPEZOID METHOD, MINIMUM N (ASTM D 2263 SECTIONS 35 - 47)

ESD-M9H120-A1/B1	WMD	20
	AMD	25
ESD-M9H120-A2/B2	WMD	30
	AMD	35

3.7 DIMENSIONAL STABILITY mm, max

0,5 %

Specimen Size	300 x 300
Storage Conditions	1 h at 100 +/- 2 C

Measure dimensional change after cooling to room temperature.

3.8 ODOUR, max (FLTM BO 131 - 1)

rating 2

3.9 FLAMMABILITY

3.9.1	ESD-M9H120-A1/A2, max Burn rate (ISO3795)	100 mm/minute
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DELTA	3.9.2	DELTA ESD-M9H120-B1/B2, max Burn rate (FLTM EU-BN 24-2)	100 mm/minute
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In order to comply with Federal Motor Vehicle Safety Standard No. 302, the materials, portions of components and composites shall not burn or transmit a flame across their surface, at a rate of more than 100mm/minute. To demonstrate compliance, the sample size and method of testing shall be in accordance with FLTM EU-BN 24-2.