



ENGINEERING MATERIAL SPECIFICATION

Material Name	File Control No.	Specification Number
POLYPROPYLENE FABRIC, SPUN BONDED	SMT5009HE5785	SK-M9H9519-A
	SMT5009HE5786 DELTA	SK-M9H9519-B

1. SCOPE

The material defined by this specification is a spunbonded, non-woven fabric made from continuous filaments. The fabric has a pin-point geometric pattern transferred by thermal-bonding.

2. APPLICATION

This material is generally used in the front seat and seat-back cushion pad assemblies, and/or as specified on Engineering drawings.

3. REQUIREMENTS

All test values indicated herein are based on materials conditioned in a controlled atmosphere of 23 +/- 2 C and 50 +/- 5 % relative humidity for 24 h prior to testing and tested under the same conditions.

3.1 WIDTH As specified on Engineering drawings.
(ASTM D 1910, Method 12-16)

3.2 COMPOSITION Polypropylene 100 %

3.3 FIBRE SIZE dTx 2.2
(ASTM D 1577, Method B)

3.4 PHYSICAL REQUIREMENTS

Weight g/m2	Tensile Strength	Tear Strength	Dimensional Stability			
(FLTM EU-BN 6-1)	(ASTM D 1682,	N, min Trapezoid	1 h storage			
Specimen Size	GT Method Test	Test Method	at 100 C			
30 x 30 cm	Speed 300 mm/Minute	ASTM D 2253	Specimen Size			
		Sections 35 - 47	30 x 30 cm			
	UMD	AMD	LMD	AMD	UMD	AMD
Min 45	70	75	22	25	1,0 mm	1,0 mm
Min 55	90	95	25	30	1,0	1,0
Min 70	110	115	30	35	1,0	1,0
Min 90	145	150	40	45	1,0	1,0

Date	Release No.	Release/Revision
1989 05 31	B/031524TC	Retyped minor changes, was 4 sheets
1983 10 13	SM/ER4243TC	Suffix B added
1981 06 26	SM/ER4591TC	Released

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3.5 FLAMMABILITY

3.5.1 SK-M9H9519-A, max Burn rate
(ISO3795)

250 mm/minute

DELTA

3.5.2 DELTA SK-M9H9519-B, max Burn rate
(FLTM E1-BN 24-2)

100 mm/minute

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.

3.6 PERFORMANCE ENVIRONMENTAL AGEING REQUIREMENT

All materials, portions of components and composites defined by this specification that have not been treated modified or reformulated and exceed a maximum burn rate of 75mm /minute as specified by the Flammability Lot Sampling Plan of FLTM EU-BN 24-2, must be evaluated for permanency of the material's flame retardant properties per SKM-99P9500-A, Table 1 according to the accelerated environmental ageing requirements applicable to the basic material category of this particular specification.

Any material, portions of components or composites defined by this specification that have been treated, modified or reformulated to conform to Flammability Lot Sampling Plan of FLTM EU-BN 24-2, regardless of maximum burn rate, must be evaluated for both permanency of material's flame retardant properties and changes in mechanical, chemical and physical properties per SKM-99P 9500-A, Table 1 applicable to the basic material category of this particular specification.

3.7 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 material/source approval. Appropriate statistical tools must be used to analyze process/product data so that variation in the final product is continuously reduced.

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