FELT, SOUND ABSORPTION, SELF-ADHESIVE **WSK-M99G145-C1**

FELT, SOUND ABSORPTION, SELF-ADHESIVE, 12 mm NOMINAL **WSK-M99G145-C2**

FELT, SOUND ABSORPTION, SELF-ADHESIVE, 18 mm NOMINAL **WSK-M99G145-C3**

1. SCOPE

The material defined by these specifications is one-sided self-adhesive moisture resistant synthetic resin bonded non-woven fiber padding consisting of natural and recycled fiber material. The adhesive film (hot melt adhesive) is covered by release paper or foil.

2. APPLICATION

These specifications were released originally for material used as sound absorber in the passenger compartment and bonded to inner side of roof, door and instrument panel.

3. REQUIREMENTS

Material specification requirements are to be used for initial qualification of materials.

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).

3.3 CONDITIONING AND TEST CONDITIONS

Note: Samples for control and routine checks shall be submitted as required by Quality Control. The material shall be conditioned for a min of 24 h at 23 +/- 2 °C and 50 +/- 5% relative humidity prior to test.

If not otherwise specified use test panels EC-coated according to FLTM BI 120-01, C.

3.4 ABSORPTION MATERIAL

3.4.1	Color			Any
		C1	**C2**	**C3**
3.4.2	Thickness, mm (ASTM C 167)	4.5 - 9.5	8.5 - 16	15 - 22
3.4.3	Density, kg/m^3 (ASTM D 2395, Method A)	60 - 85	50 - 75	50 - 75
3.4.4	Splitting Resistance			See Figure 1
	3.4.4.1 Original, min			0.4 N/cm^2

Date	Action	Revisions	Rev 02
2013 08 13	Revised	Corrected typo in 3.4.2 from A1/2/3 to C1/2/3	P. Konopka, NA
2006 09 25	Revised	Inserted 3.0; Deleted 3.1, 3.2, 3.7 & 4	
2001 10 10	Activated	Replaces ESK-M99G145-A1/A2/A3	W. Scholz/P. Purcell

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3.4.4.2	After Aging, max (14 d at 70 +/- 2 °C, 24 h at room temperature)	-10%

Test Method:

1) 5 test specimens 100 x 100 mm shall be bonded to 2 specimen holders each and conditioned for 24 h at room temperature (use adhesive S-M2G4610-A or equivalent).

2) Determine splitting resistance in a tensile machine at a rate of pull of 25 mm/minute.

3.4.5	Sound Absorption (ASTM C 384)	See Table 1
3.4.6	Air Flow Resistance (ASTM C 522, specimen dimension: 98 mm diameter)	2.0 - 3.5 x 10^4 Rayl/m

Where: R = Air Flow Resistance
P = Air Pressure Difference, in "mm" Water Column
Q = Volume Velocity of Air Flow, in Liter/min
d = Thickness in mm

Note: This test shall be performed on specimens without adhesive coating.

The supplier is required to provide such samples on request from Quality Control.

3.5 FINISHED PART REQUIREMENTS

3.5.1	Dimension	As specified on Engineering drawing
3.5.2	Staining	None

Test Method: (See Figure 2)

Place a light colored production headlining sample in intimate contact with an approximately 100 x 300 mm fiber pad sample and expose for 120 h in the Florescent Sunlamp Cabinet with the headlining facing the light source and adhesive side of fiber pad bonded to the panel (see FLTM BU 152-02).

3.5.3 Adhesion After Heat Aging

No loss of adhesion, no delamination or splitting of fiber material, no chipping.

Test Method:

1) Apply 280 x 280 mm pieces of test material to 300 x 300 x 1.5 +/- 0.1 mm test panels, prepared according to para 3. Note, with the tacky side bonded to the panel and press together evenly using a roller according to ASTM D 1000.

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