



SOUND ABSORPTION PART, MOLDED

SK-M99G9519-A

SOUND ABSORPTION PART, MOLDED

▽ SK-M99G9519-B

1. SCOPE

The material defined by these specifications is a molded, mildew resistant, non-woven, synthetic resin bonded natural and/or synthetic fiber felt, covered on one side with an air impermeable coating.

2. APPLICATION

This part was originally released for sound absorption in the passenger compartment such as C-pillar area upper.

3. REQUIREMENTS

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

The material shall be conditioned for a minimum of 24 hours at 23 +/- 2 °C and 50 +/- 5% relative humidity prior to test and tested under the same conditions. Tests shall be conducted not earlier than 72 hours after manufacture of part.

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).

3.1 COLOR

Any or as specified on Engineering drawing

3.2 THICKNESS

(ASTM C 167, except 15 mm away from the edges)

10 +/- 1.5 mm

3.3 DENSITY

(ASTM C 167)

60 - 80 kg/m³

3.4 SPLITTING RESISTANCE, min

1.5 kPa

Test Method: (See Figure 1)

- 1) Three test specimens 30 x 30 mm shall be bonded to two specimen holders each and conditioned for 24 hours at room temperature (use adhesive S-M2G4610-A or equivalent).
- 2) Determine splitting resistance in a tensile testing machine at a rate of pull of 25 mm/minute.

Date	Action	Revisions
2006 08 24	Revised	Inserted 3.0; Deleted 3.14 & 4
1994 12 15	Revised & Retyped	Was 11 pages
1977 05 06	Released	

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3.5 TENSILE STRENGTH AT BREAK, min

10.0 N/cm²

Test Method:

- 1) Cut test specimens of 15 x 100 mm from finished part.
- 2) Determine tensile strength with a tensile testing machine. Distance between jaws 50 mm, separation rate of jaws 25 mm/minute.

3.6 MILDEW RESISTANCE

The material shall be free from mildew and malodour. There shall be no visible changes evident after drying.

Test Method: Soak the finished part or appropriate section of material with distilled water in a beaker glass of one liter capacity and cover tightly with a lid. Maintain at a temperature of 35 +/- 2 °C for 350 hours. Remove and examine as described above.

3.7 DIMENSIONAL STABILITY

The finished part shall show no evidence of delamination, no visible shrinkage or distortion respectively, it shall not warp to an extent that would affect its use in ultimate assembly.

Test Method:

- 1) Expose finished part for 72 hours in an air circulated drying oven maintained at 80 +/- 2 °C.
- 2) Check for dimensional stability after cooling to room temperature.

3.8 ENVIRONMENTAL CYCLING

The finished part shall show no evidence of delamination, no visible shrinkage or distortion respectively, it shall not warp to an extent that would affect its use in ultimate assembly.

Test Method: The finished part shall be subjected 3 times to the following cycle in the sequence indicated below.

3 h at 80 +/- 2 °C
1 h at room temperature
3 h at -40 +/- 2 °C
1 h at room temperature
16 h at 38 +/- 2 °C and 98 +/- 2% relative humidity