



Engineering Material Specification

Material Name

Specification Number

DEADENER, FLOOR PAN - MASTIC

ESB-M5G19-C1

ESB-M5G19-C2

▽ ESB-M5G19-F1

~~▽ ESB-M5G19-F2~~

1. SCOPE

The material defined by this specification is a 3 ply laminated deadener, composed of asphalt rubber mastic and an antiblocking agent on both surfaces to prevent blocking during shipping and storage. The ESB-M5G19-C1 and ▽ ESB-M5G19-F1 materials have polyethylene film on one side and kraft paper on one side. The ESB-M5G19-C2 and ~~▽ ESB-M5G19-F2~~ have polyethylene or polyester film on both sides.

2. APPLICATION

This specification was released originally for materials used as floor pan deadeners. The ESB-M5G19-C1 and ▽ ESB-M5G19-F1 are generally used in thicknesses of 0.1 in (2.5 mm) and 0.08 in (2.0 mm), both with and without fiber pads as a deadener and sound barrier. The ESB-M5G19-C2 and ~~▽ ESB-M5G19-F2~~ are more pliable and can be used in thicknesses down to 0.06 in (1.5 mm) where lower weight or greater flexibility is desired.

3. REQUIREMENTS

ESB-M5G19-C1 and ▽ ESB-M5G19-F1 were originally designated ESB-M5G19-C and ▽ ESB-M5G19-F, and where ESB-M5G19-C (▽ ESB-M5G19-F) are indicated on engineering drawings, patterns, specifications, etc., ESB-M5G19-C1 (▽ ESB-M5G19-F1) will be understood.

3.1 CONDITIONING

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

3.2 THICKNESS As specified on engineering drawings
(ASTM D 461, 1 lb (454 g) load,
1 in (25 mm) foot)

3.3 DENSITY, min 86 lb/ft³ (1378 kg/m³)
(ASTM C 167)

3.4 COMPOSITION
(FLTM AV 1-1)

ESB-M5G19-C1 & ▽ ESB-M5G19-F1

3.4.1 Asphalt Rubber mastic

3.4.2 Creped kraft 0.01-0.02 lb/ft² (49-98 g/m²)

3.4.3 Polyethylene film 0.002-0.005 lb/ft² (9.8-24.4 g/m²)

Date	Para. No.	Revisions
1978 09 20		Metricated, Renumbered & Retyped CAHI-RD572066-103 <i>BCF gwa/tey</i>
1976 11 03		Released AG1-6000-92

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Engineering Material Specification

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ESB-M5G19-C2

✓ ESB-M5G19-F1

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3.4.4 Asphalt rubber mastic

3.4.5 Polyethylene or polyester film 0.002-0.005 lb/ft² (9.8-24.4 g/m²)

Test Method: Polyethylene or polyester film is stripped from mastic, solvent wiped and weighed.

3.5 BREAKING STRENGTH, min (ASTM D 461) 0.01 in lb/mil thickness/inch width (0.70 N/mm thickness/10 mm width)

3.6 TEAR STRENGTH, min (ASTM D 624, Die "C", any direction) 20 lb (89 N)

3.7 FLEXIBILITY, At 23 ± 2°C No cracking

Test Method: Bend a 2 x 6 in (50 x 150 mm) sample 180°, slowly, around an 0.5 in (13 mm) mandrel with either surface up.

3.8 PALLETIZING Shall be easily separated

Test Method: Ply up ten, 4 x 4 in (100 x 100 mm) samples. Place a 20 lb (9.1 kg) static load over the material and place in a mechanical convection oven maintained at 54 ± 2°C for 72 h. Cool samples to 23 ± 2°C and peel by hand.

3.9 HEAT STABILITY

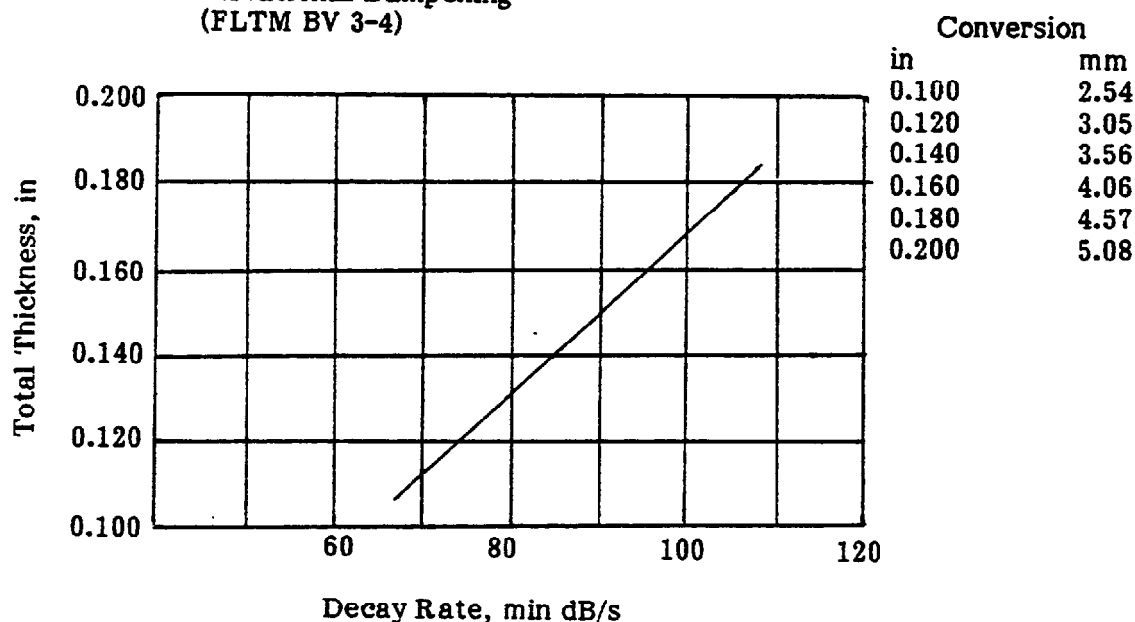
No dripping of mastic composition or fall-off of poly film.

Test Method: Suspend samples of material in a vertical position for 2 h at 88 ± 2°C in a mechanical convection oven.

3.10 SOUND PROPERTIES

3.10.1 Transmission, max (FLTM BV 3-3) 90.0 dB

3.10.2 Vibrational Dampening (FLTM BV 3-4)



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