

SoundMat Technical Data:

High performance mass loaded sound barrier for a quieter environment.

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| Material Type | Vinyl sound barrier mat. Thermoplastic polymer compound. |
| Colour | Black |
| Special Features | The material is free of lead, unrefined aromatic oils and bitumen. |
| Product range | Sheets / rolls, 2, 3 and 4 mm thickness. |
| Applications | Flexible sheet for noise control in industrial applications |
| Installation | TBC |

| Property | Value/Assessment | | Standards & Remarks |
|---|--|--|---|
| Temperature Range | | | |
| Service Temperature | Max service temperature Min service temperature | +65 °C +149 °F -20 °C -4 °F | Tested acc. to EN 14706, EN 14707 & EN 14304 |
| Fire Performance & approvals | | | |
| International standards | FMVSS 302 Self-extinguishing ISO 3795 alternatives such as AS 1530.3—1999 can be produced to order. | | Tested according to FMVSS 302 |
| Weight | | | |
| Mass per unit area | 2 mm thickness: 4.8 to 5.5 kg/m ² | 0.98 to 1.13 lb/ft ² | |
| | 3 mm thickness: 7.2 to 8.25 kg/m ² | 1.47 to 1.69 lb/ft ² | |
| | 4 mm thickness: 9.7 to 11.0 kg/m ² | 1.99 to 2.25 lb/ft ² | |
| Acoustic performance | | | |
| Acoustic insertion loss | SoundMat is a mineral loaded vinyl (MLV) sound barrier loaded with barium sulphate as detailed in ISO 15665 and Shell DEP's. | | Tested according to ISO 3741 (Equivalent method ASTM E1222) Classified according to ISO 15665 |
| Reduction of structure-borne sound transmission | 2 mm thickness: Mean sound reduction index RW ≥ 22 dB 3 mm thickness: Mean sound reduction index R ≥ 25 dB 4 mm thickness: Mean sound reduction index RW ≥ 28 dB | | Tested according to ISO 10140-2 |
| Mechanical Properties | | | |
| Tensile strength (MD/CD) | ≥ 1.8 MPa | ≥ 261 psi | Tested acc. to ISO 37 |
| Elongation (MD/CD) | ≥ 25 % | | |
| Other technical features | | | |
| Health aspects | Free of lead | | |
| Application and handling conditions | Ambient temperature: Max. relative humidity: | 5 °C to +35 °C +41 °F to +95 °F 80% | |
| Adhesion and fixing | Stainless Steel bands and ECO seals are recommended. Can be supplied with a self-adhesive layer or use a suitable adhesive. | | |
| Storage | Material shall be stored indoors, in clean and dry conditions, away from direct sunlight. | | |
| Shelf (storage) life | Max 3 years | | |