3M™ Flexile Acoustic Material FAB Series

Preliminary Technical Data Sheet

Important Notice and Disclaimer: 3M FAB1210, 3M FAB0610, 3M FAB0510 and 3M FAB0310 are experimental or developmental products that has not been introduced or commercialized for general sale, and final specifications have not been established. Future availability, design, composition, performance properties, manufacture, quality, specifications, and pricing of the product are not guaranteed and are subject to change without notice. The data presented in this presentation represents 3M’s best estimates for the current product construction being evaluated, but the accuracy or completeness is not guaranteed. Such data should not be used for specification purposes.

Important Note: 3M FAB0910 is commercially available.

Product Description

3M™ Flexile Acoustic Material FAB Series solves current and future NVH-T challenges by leveraging the synergy between acoustic particles and a fibrous structure to address difficult to treat noises in a single layer. The thin material features both absorber and barrier properties and has excellent low frequency absorption without sacrificing performance in high frequencies.

Application

The 3M FAB Series can be used in various applications to address tire and road noise or other noises that would typically be treated by a combination of absorbers and barriers. 3M FAB1210 is excellent for treating low frequencies (<500 Hz). 3M FAB0910, 3M FAB0610 3M FAB0510 and 3M FAB0310 are excellent for use in applications with limited space that require improved absorption across a broad frequency range (>500Hz).

Typical applications include, but are not limited to, wheelhouse liner, inner dash, quarter trim panels, consoles, HVAC duct, underbody shields, doors and pillars.

Typical Physical Properties

Note: The following technical information and data is based upon limited 3M testing conditions and should not be used for specification purposes. Data in the table below is based on roll goods.

<table>
<thead>
<tr>
<th>Physical Property</th>
<th>Commercially available</th>
<th>Developmental</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3M FAB0910</td>
<td>3M FAB1210</td>
</tr>
<tr>
<td>Basis Weight ^</td>
<td>900 gsm</td>
<td>1270 gsm</td>
</tr>
<tr>
<td>Thickness ^</td>
<td>12.0 mm</td>
<td>19.5 mm</td>
</tr>
<tr>
<td>Flammability (FMVSS302)</td>
<td>Pass</td>
<td>Pass</td>
</tr>
<tr>
<td>Scrim</td>
<td>Black/White</td>
<td>Black/White</td>
</tr>
</tbody>
</table>

^ Weight is the mass per unit area of the entire absorber composite.

^ Nominal thickness is measured using a 12.125 in² plate with 0.0142 psi (= 98N/m²) applied to the sample per SAE J1355.
Random Incidence Acoustic Absorption Coefficient per SAE J2883

![Graph showing absorption coefficients for different materials.]

**Note:** test was performed with the black scrim facing the noise source.

Normal Incidence Transmission Loss per ASTM E2611

![Graph showing transmission loss.]

**Note:** test was performed with the black scrim facing the noise source.
Regulatory Information
Please refer to the product label, Article Information Sheet (AIS) or Safety Data Sheet (SDS) for health and safety information before using. Observe proper handling precautions as outlined in the AIS or SDS, which is available on request or at www.3M.com/msds.

The product is published as a material entry and is available for access on www.mdsystem.com. For product IMDS I.D. number, email requests to 3M-IMDSrequest@mmm.com.

Contact Information
The information provided in this technical document is intended as a guide for these products. For more information or help in selecting a 3M product for an application, please contact your 3M technical service representative or call 1-800-328-1684.

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