

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

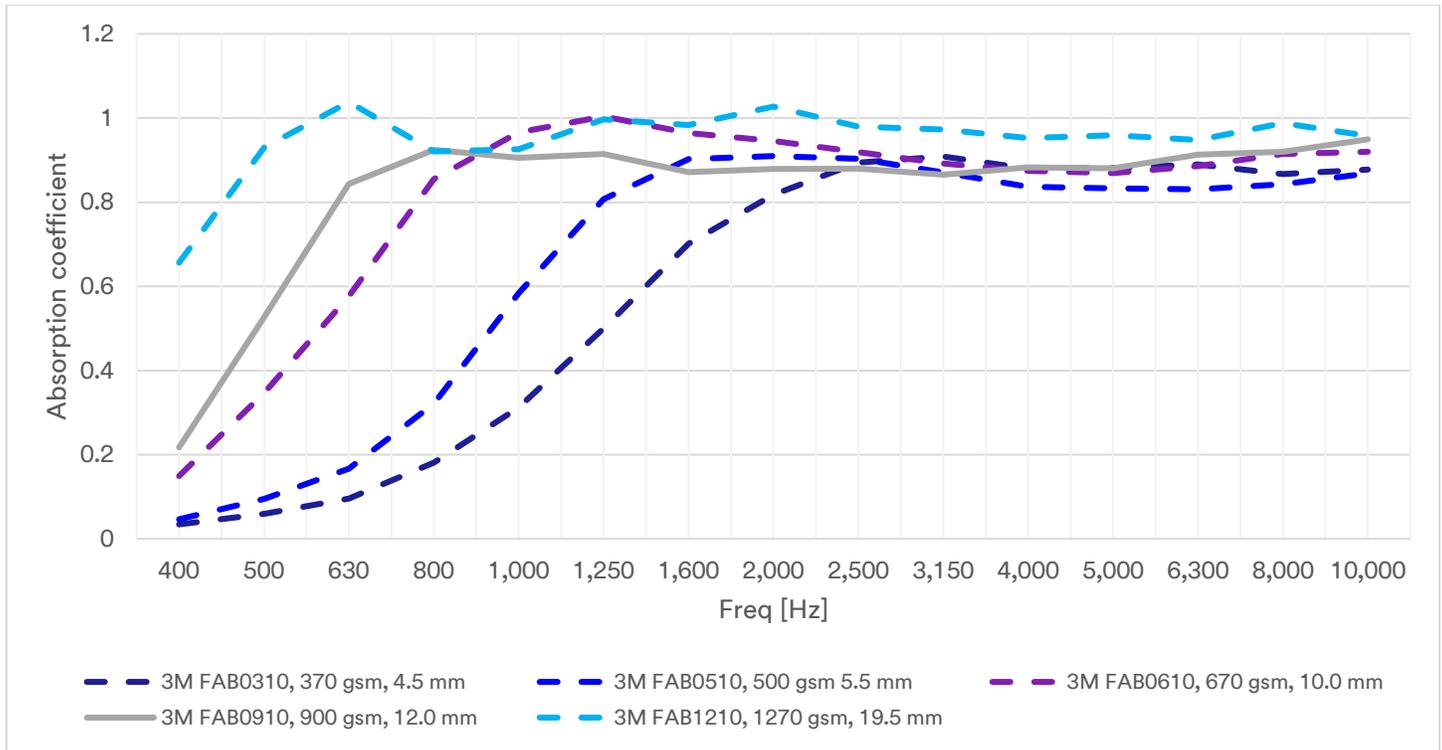
Note: The following technical information and data is based upon limited 3M testing conditions and should not be used for specification purposes. Data in the table below is based on roll goods.

	Commercially available	Developmental			
Physical Property	3M FAB0910	3M FAB1210	3M FAB0610	3M FAB0510	3M FAB0310
Basis Weight ^A	900 gsm	1270 gsm	670 gsm	500 gsm	370 gsm
Thickness ^B	12.0 mm	19.5 mm	10.0 mm	5.5 mm	4.5 mm
Flammability (FMVSS302)	Pass	Pass	Pass	Pass	Pass
Scrim	Black/White	Black/White	Black/White	Black/White	Black/White

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

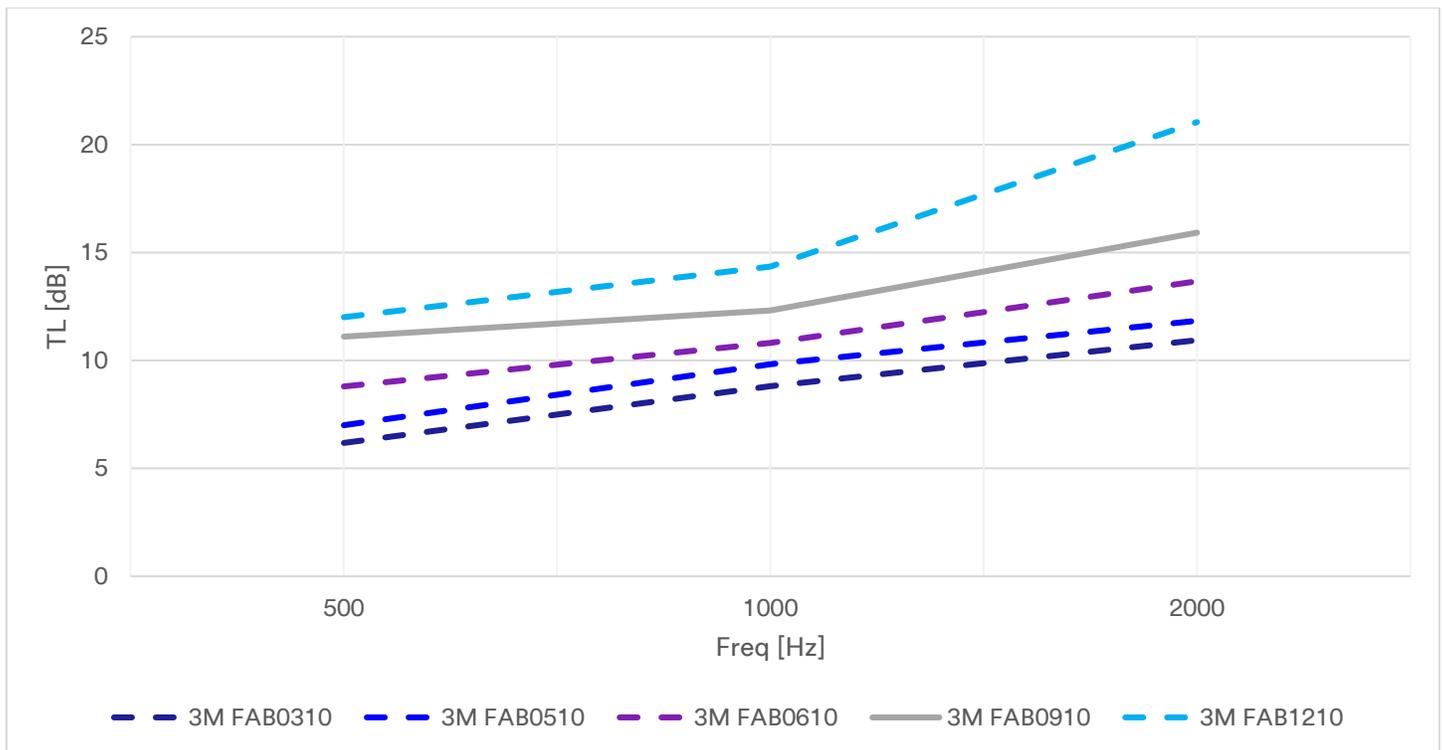
^B Nominal thickness is measured using a 12.125 in² plate with 0.0142 psi (= 98N/m²) applied to the sample per SAE J1355.

Random Incidence Acoustic Absorption Coefficient per SAE J2883



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

Normal Incidence Transmission Loss per ASTM E2611



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.mdssystem.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.

Important Notice and Disclaimer: 3M FAB1210, 3M FAB0610, 3M FAB0510 and 3M FAB0310 are experimental or developmental product that has not been introduced or commercialized for general sale, and its formulation, performance characteristics, and other properties, specifications (if any), availability, and pricing are not guaranteed and are subject to change or withdrawal without notice. User is solely responsible for evaluating third party intellectual property rights and for ensuring that user's use of this 3M product does not violate any third party intellectual property rights. **Technical Information:** The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information. **Product Selection and Use:** Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, user is solely responsible for evaluating this 3M product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property. **Warranty Disclaimer:** This 3M product is sold or made available "AS IS." 3M MAKES NO WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. **Limitation of Liability:** Except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to this 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.



Automotive & Aerospace Solutions Division

3M Center, Building 223-2N

St. Paul, MN 55144-1000

Phone: 1-800-328-1684

Web: www.3M.com/acousticsolutions

3M is a trademark of 3M Company

Please recycle. Printed in USA © 3M 2022

All rights reserved.