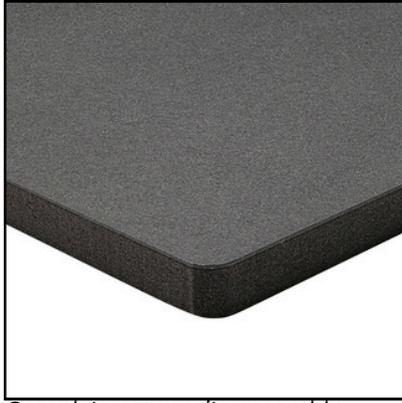




FOAM DAMPING SHEET (FDS)



Complete composite assembly.

PRODUCT DESCRIPTION

Foam Damping Sheet (FDS) is a composite material that combines a viscoelastic damping sheet (GPDS, General Purpose Damping Sheet) with a flexible polyester urethane acoustical foam. It is available in sheet form and standard foam thickness. It can be supplied with pressure sensitive adhesive backing.

GPDS absorbs vibration energy generated by the summation of modal responses in metallic and non-metallic thin gauge panels. When applied to either side of a stiff vibrating surface such as metal, plastic, or wood, it will increase structural damping and effectively reduce structural modal responses.

The acoustical foam is an acoustic quality, open cell, flexible polyester based polyurethane foam. It is based on unique urethane foam formulation to provide a uniform cell structure, high physical properties, excellent sound absorption, good heat, humidity, flame*, and chemical resistance.

MARKETS



TYPICAL APPLICATIONS

- Trucks, buses, construction, mining, agriculture, military transport, and emergency vehicles
- Gensets, conveying systems, HVAC, compressed air
- Semiconductors, telecommunications equipment, EV charging stations and battery storage
- Medical equipment

PRODUCT CONFIGURATIONS

- Custom die-cut parts, sheets, and kits

PHYSICAL PROPERTIES OF COMPOSITE

Operating Temperature	0°C (32°F) to 70°C (158°F)
Flame Resistance	UL-94 HBF MVSS-302

DAMPING PHYSICAL PROPERTIES - GENERAL PURPOSE DAMPING SHEET

Material Type	Filled plasticized PVC
Colors	Black
Density	110 lb/ft ³
Tensile Strength	500 PSI Min
Compression Set	20%

THE SOUNDCOAT PROMISE

We have one goal: to enhance the customer experience by providing world-class products manufactured under ISO 9001:2015 and AS9100:2016 standards in one of our modern manufacturing facilities strategically located on each coast.

All materials are tested and qualified in our acoustics and materials testing laboratory to ensure consistent quality and performance.

Soundcoat products are supplied, tested, and produced to your specifications.



GPDS (General Purpose Damping Sheet)



FOAM DAMPING SHEET (FDS)

ABSORPTION PHYSICAL PROPERTIES - SOUNDFOAM O

Material Type	Polyester urethane foam
Color	Charcoal grey
Density	2.0±0.2. lb/ft ³
Operating Temperature	-43°C (-45°F) to 110°C (230°F)
Tensile Strength	20 PSI Min
Elongation	200%
Compression Set	<10%
Thermal Conductivity	0.25 BTU in./h ft ² °F



Soundfoam O

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Visit [soundcoat.com](https://www.soundcoat.com) to see our complete line of absorption, barrier, damping, sealing, and thermal materials.

For further information on meeting specific requirements and for optimum product configuration, contact our Technical Support Department at 1-800-394-8913.

The information contained herein is based on laboratory test data developed by or for Soundcoat and is believed to be reliable, but its accuracy or completeness is not guaranteed. The buyer must test this product to determine its suitability for his/her specific application before use. Only use a Soundcoat product after thoroughly consulting instructions on the data sheet for the specific product. SOUNDCOAT DISCLAIMS ANY RESPONSIBILITY FOR 1) WARRANTIES OF FITNESS AND PURPOSE, 2) VERBAL RECOMMENDATIONS, 3) CONSEQUENTIAL DAMAGES FROM USE, AND 4) VIOLATION OF ANY PATENTS OR TRADEMARKS HELD BY OTHERS.

Properties subject to change without notice. Check with Soundcoat for latest revisions. Flame, smoke, toxicity performance is not intended to reflect hazards presented by this material under actual fire conditions. The Federal Trade Commission considers that there are no existing test methods or standards regarding flammability that are accurate indicators of the performance of cellular plastic materials under actual fire conditions. Any results of existing test methods are intended for measurements of the relative performance of such materials under specific controlled test conditions.

Kapton®, Nomex®, and Tedlar® are registered trade names of Dupont Corporation.