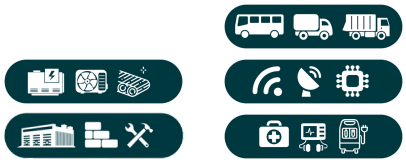
TECHNICAL DATA SHEET

GPDS (GENERAL PURPOSE DAMPING SHEET)

SOUNDCOAT



MARKETS



PRODUCT DESCRIPTION

GPDS (General Purpose Damping Sheet) is a flexible viscoelastic damping material. GPDS absorbs vibration energy generated by the summation of modal responses in metallic and nonmetallic thin gauge panels.

When applied to either side of a stiff vibrating surface such as metal, plastic or wood, GPDS will increase structural damping and effectively reduce structural modal responses. GPDS is formulated for maximum free-layer damping efficiency over a broad frequency range, at room temperature (22°C or 72°F) with useful damping over 3°C to 50°C (40°F to 120°F).

GPDS absorbs vibration energy by transferring mechanical vibration energy in the base panel into the damping layer and converting it into heat, therefore reducing structure borne noise. GPDS is formulated for maximum damping efficiency and provides high damping factors to a wide range of vibrating modes. GPDS is conformable with heat and pressure to many complex surfaces or parts. It is resistant to certain aqueous solutions, oils, greases and common industrial fluids.

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
- Industrial building spaces
- Medical equipment

PHYSICAL PROPERTIES

Material Type	Filled Plasticized PVC
Color	Black
Density	110 lb/ft3
Operating Temperature	0°C (32°F) to 70°C (158°F)
Tensile Strength	500 PSI Min
Compression Set	20%
Flame Resistance	UL 94 V0 (GPDS Only) FAR 25.853(a)-Vertical Flame Test (GPDS Only) FMVSS-302

PRODUCT CONFIGURAITONS

- Custom die-cut parts and sheets
- 0.035 in to 0.120 in thick
- Pressure sensitive adhesive backing with removable release liner
- Can be made into a composite with Soundfoam material to create GPDS FDS (Foam Damping Sheet)

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.

HQ | 1 Burt Drive | Deer Park, NY | 11729 | US
Phone: 631.242.2200 | Fax: 631.242.2246

West Coast Operations | 2721 S. Harbor Boulevard, Suite A | Santa Ana, CA | 92704 | US
Phone: 949.955.9202 | Fax: 949.222.0834

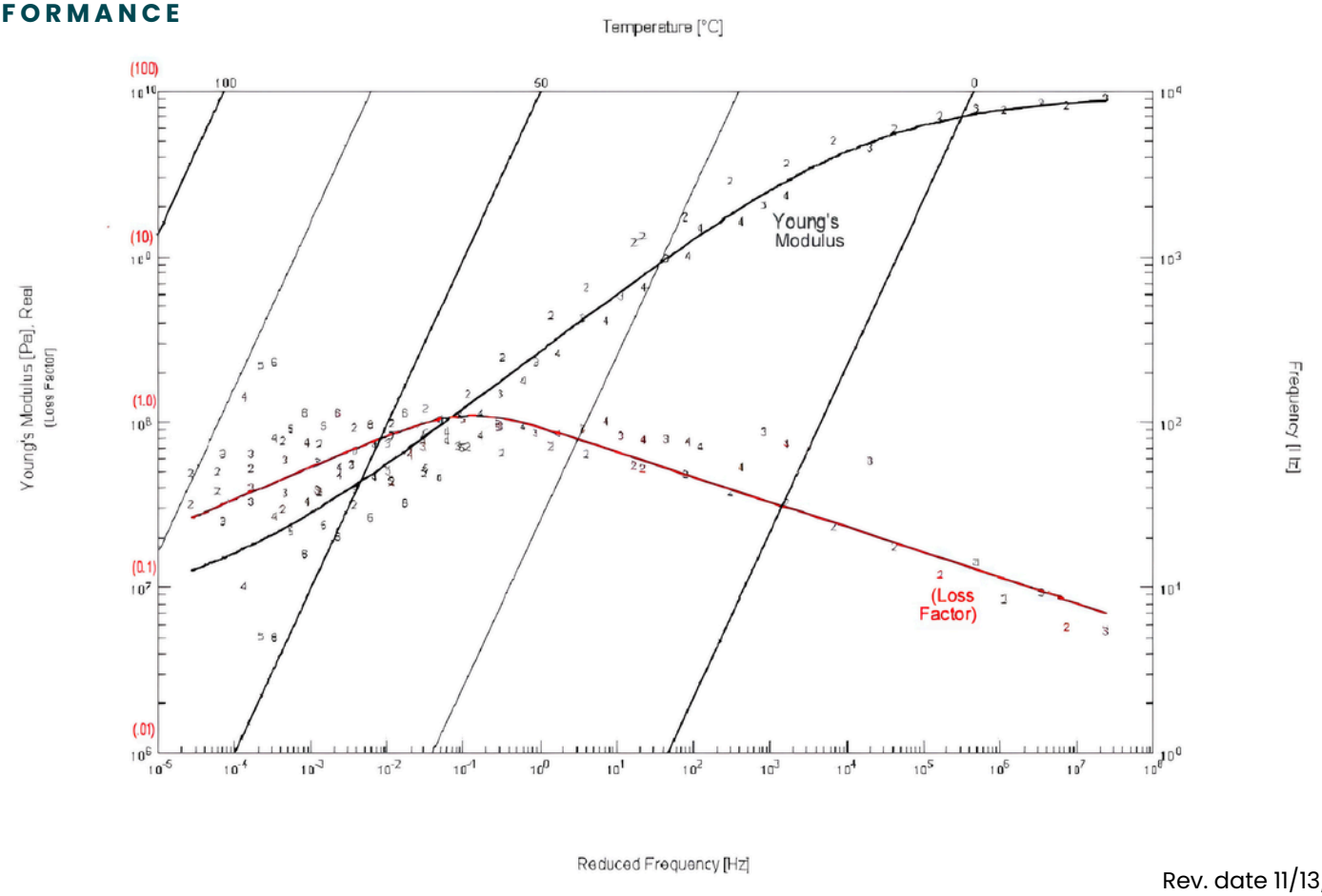
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SOUNDCOAT

PERFORMANCE



Rev. date 11/13/2026

Visit 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.

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