

PRODUCT DESCRIPTION

DYAD is a constrained layer vibration damping material specifically formulated from viscoelastic elastomers to provide high damping over a broad range of temperature and frequency. DYAD dissipates vibration energy in thin gauge metals or structures. It is a high efficiency vibration damping composite specially designed to reduce structure borne noise resulting from unwanted vibration, impact, resonance and coincidence problems.

DYAD is formulated in multiple types, and depending on the temperature range desired, it should be mounted to the base and constraining layer using a stiff epoxy, such as our B-Flex epoxy for maximum performance.

DYAD is ideally suited for vibration and noise control of heavy plates, railroad bridges, punch presses, ship decks and similar heavy equipment.

PHYSICAL PROPERTIES

Material Type	Polyurethane Elastomer
Color	Clear, Yellow Tint
Density	69 lb/ft ³
Operating Temperature	-43°C (-45°F) to 150°C (300°F) Optimum Damping Range Dependant on Type (See Nomograms)
Tensile Strength	960 PSI (601) 2400 PSI (606) 4800 PSI (609)
Elongation	600% (601) 400% (606) 250% (609)
Compression Set	<20%
Thermal Conductivity	0.25 BTU in./h ft ² °F
Flame Resistance	FAR 25.856(a) FAR 25.853(b) UL94 HF-1 UL94 V0 ASTM E84 Class A

TYPICAL APPLICATIONS

- Launch vehicles, satellites, engine power systems, planes, and helicopters
- Trucks, buses, construction, mining, agriculture, military transport, and emergency vehicles

MARKETS



PRODUCT CONFIGURATIONS

- Available in 24 in x 48 in sheets standard
- .020 in, .050 in, or 0.100 in

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.

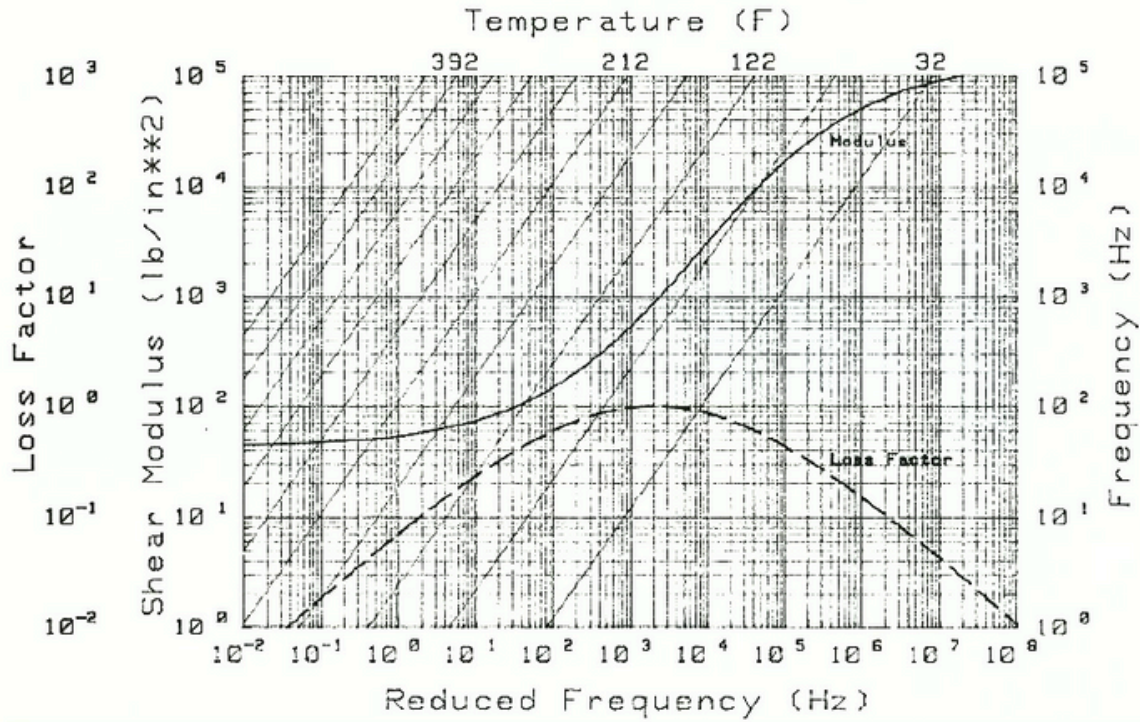
All materials are tested and qualified in our acoustics and materials testing laboratory to ensure consistent quality and performance.

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

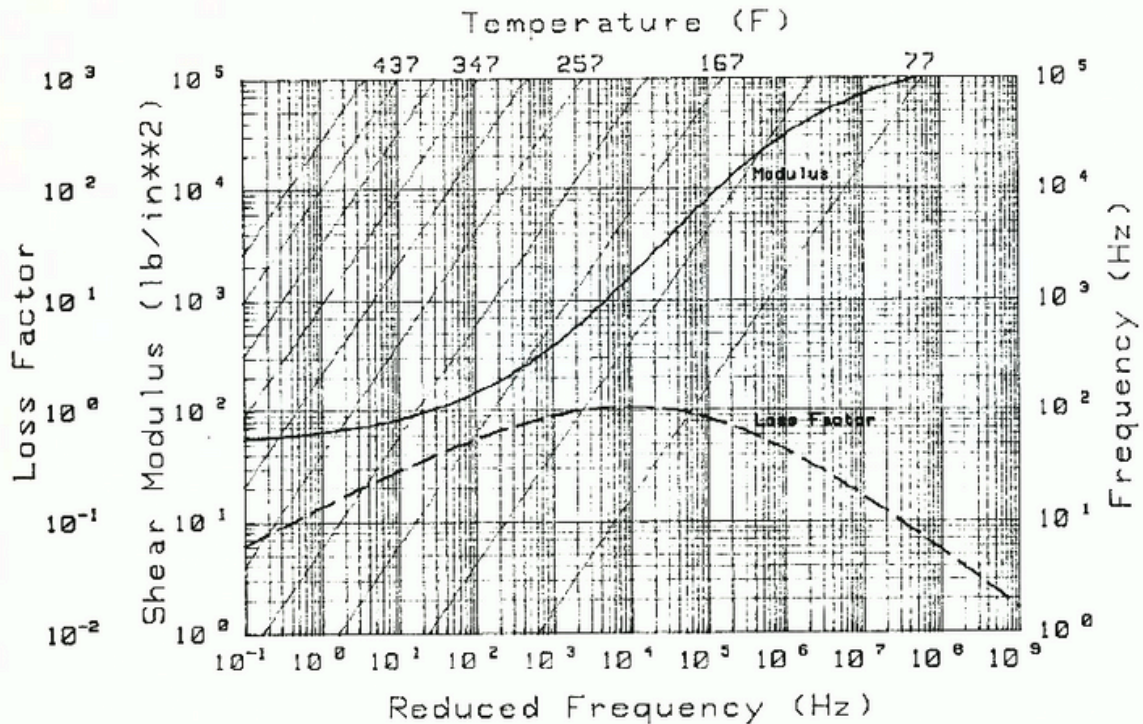


PERFORMANCE

SOUNDCOAT DYAD 601

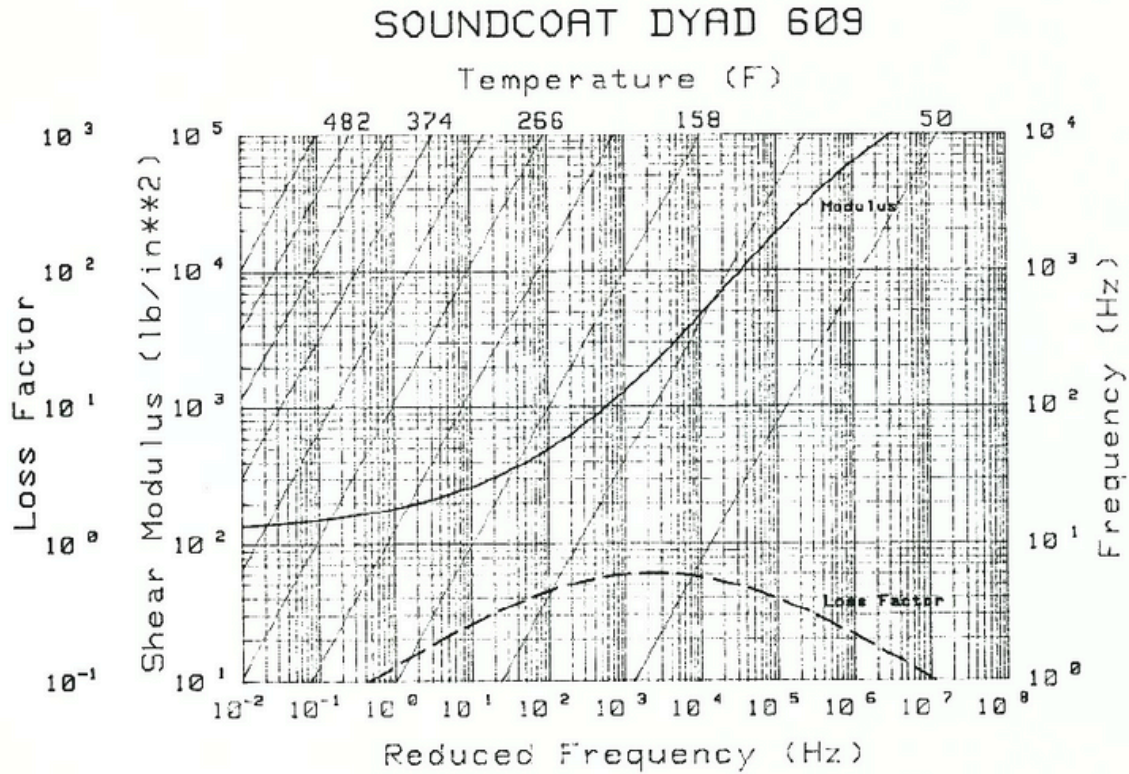


SOUNDCOAT DYAD 606





PERFORMANCE



Rev. date 8/30/2024

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.

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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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