



SOUNDFOIL LT



PRODUCT DESCRIPTION

Soundfoil LT is a constraining layer vibration composite. It consists of an outer constraining layer of thin metal (typically aluminum) and a viscoelastic polymer coating with a removable release liner. Soundfoil LT dissipates vibration energy in thin gauge metals or structures. It reduces structure borne noise resulting from unwanted vibration, impact, resonance and coincidence problems.

Soundfoil LT is unique in its ability to provide high loss factor and smaller shear modulus over a wide temperature range of -40° to 27° C (-40° to 80° F) – with the sizeable damping down to -40° being particularly significant. This is maintained over long-term aging at a recommended service temperature ranging from -60° to 66° C (-76° to 150° F).

Soundfoil LT has good resistance to water, common solvents, corrosion, cyclic heating and cooling, and outdoor weathering.

MARKETS



TYPICAL APPLICATIONS

- Launch vehicles, satellites, engine power systems, planes, and helicopters
- Ideal damping material for aircraft skins

PHYSICAL PROPERTIES

Material Type	Low Temperature Damping Polymer on an Aluminum Constraining Layer
Color	Grey
Peak Damping Temperature	-30° C to 0° C (Tunable based on layer thicknesses)
Operating Temperature	-60° C (-76° F) to 66° C (150° F)
Standard Configurations	15LT12, 20LT12, 20LT9
Weight	.29 lb/ft ² (15LT12)
Flame Resistance	FAR 25.853(b)

PRODUCT CONFIGURAITONS

- Custom die-cut parts
- 24 in X 48 in sheets

THE SOUNDSCOAT PROMISE

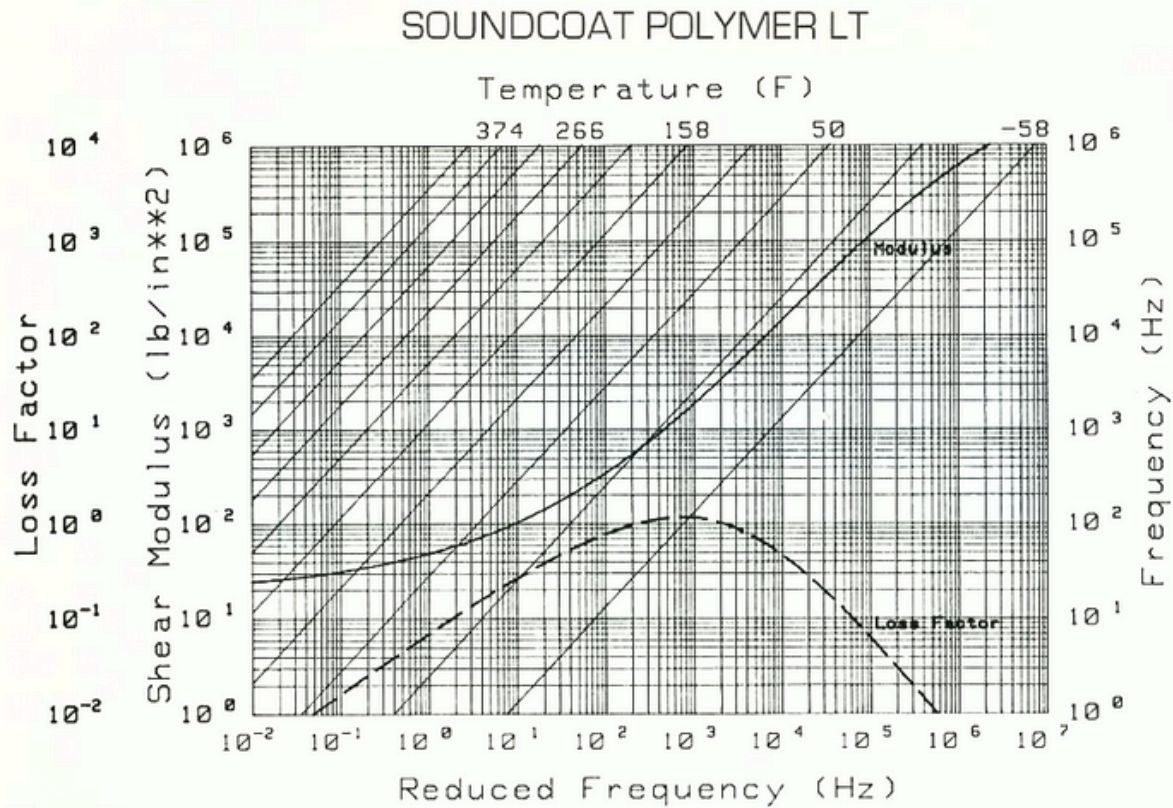
We have one goal: to enhance the customer experience by providing world-class products manufactured under ISO 9001:2015 and AS9100:2016 standards in one of our modern manufacturing facilities strategically located on each coast.

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



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.

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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