

Spec Data Sheet

Melamine Sound Absorption

Melamine is a lightweight, high temperature resistant, open cell foam manufactured from melamine resin. It combines excellent thermal properties with superior sound absorption capabilities to create a versatile fiber free product which can be applied in situations which may prohibit the use of urethane foams or fiberglass insulations. This fire retardant foam meets the flame spread, smoke density and fuel contribution requirements necessary to comply with Class-I building code regulations. The high performance thermal and acoustical characteristics of this flexible, low density foam make it an ideal product for in-plant and FDA approved applications. In addition to being the solution to aircraft and architectural noise problems, Acousti-Foam Melamine Foam is the material to use in OEM products requiring a combination of thermal and acoustical insulation capabilities. Optional facings can be applied for more durability and chemical resistance as well as pressure sensitive adhesive for ease of installation.



Melamine Physical Properties

Color	White
Density	.7 lb/ft ³ ASTM D3574-86 test A
Tear Strength	.5 ppi per ASTM D3574-86 test F
Tensile Strength	18 psi per ASTM D3574-86 test E
Elongation	15% per ASTM D3574-86 test E
Flammability	UL 94VO, UL-94 HF-1, UL 94-5, and FAR 25.853(a) ASTM E84 Flame: 2.5; Smoke: 16.9 ASTM E162 Pass 662 Pass Boeing ATS 1000.001 Pass
Thermal Conductivity	BTU/hr., Ft. ² , °F/in.; .25 per ASTM C 177
Temperature	-45°F - 302°F Continuous; to 400°F Intermittent

Standard Sizes

Sheets: 24" x 48", 48" x 48", 48" x 96"
Standard Thickness: 1/4" to 18"

Many applications require these products to be subjected to environments such as dirt, moisture, chemicals, and abrasion that could be hostile to an unprotected foam. Tamer Industries, Inc. has developed various surface treatments to protect the integrity of the foam from these elements. These facings will increase the absorption properties at certain frequencies as well as provide a cleanable, decorative and durable finish for a wide variety of applications.

Optional Facings Available

Aluminized Polyester
Reinforced Aluminized Polyester
Urethane Films (matte or impervious)
Tedlar® (trademark E.I. Dupont Co.)
Perforated Vinyl
Convoluted
Embossed
Customized Facings Available

Pressure Sensitive Adhesive

- Supported SBR (temps to 140°F)
- Unsupported Acrylic (temps to 250°)
- Supported Acrylic (temps to 250°)

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