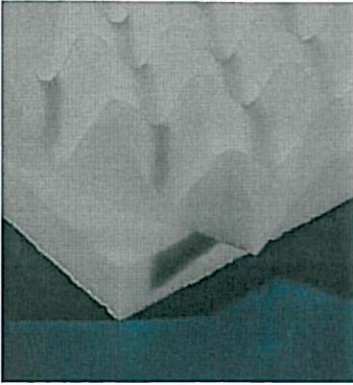


# Technical Data Sheet

## Hushcloth Melamine – Safe & Sound



Hushcloth Melamine (*HC-M*) is a grey colored, lightweight, high temperature resistant, open cell foam manufactured from melamine resin. (*HC-M*) 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-1 building code regulations.

The high performance thermal and acoustical characteristics of this flexible, low density foam make (*HC-M*) an ideal product for in-plant and FDA approved applications.

In addition to being the solution to aircraft and architectural noise problems (*HC-M*) 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

<b>Color:</b>	Grey
<b>Density:</b>	0.6 lb/ft <sup>3</sup> (9.5Kg/m <sup>3</sup> ) ASTM D3574-86 test A
<b>Tear Strength:</b>	0.5 ppi (0.87 N/cm) ASTM D3574-86 test F
<b>Tensile Strength:</b>	18 psi (124 kPa) ASTM D3574-86 test E
<b>Elongation:</b>	15% - ASTM D3574-86 test E
<b>Flammability:</b>	UL 94V0, UL-94 HF-1, UL 94-5 FAR 25.853(a) Boeing BSS 7239 – Pass ATS 1000.001 – Pass ASTM E84 - Flame: 2.5; Smoke: 16.9 ASTM E162 Is = 9 , ASTM E662 Ds(4) = 50 (flaming) 24 (non-flaming)
<b>Thermal Conductivity:</b>	BTU-in/ft <sup>2</sup> h°F 0.25 (35mW/m <sup>2</sup> K) ASTM C 177, DIN EN 12667
<b>Water Retention</b>	Special treatment available ASTM C 1511-04 – 17g (0.7% by volume)
<b>Service Temperature:</b>	-45°F (-43°C) to 302°F (150°C) Continuous; to 400°F (205°C) Intermittent

(*HC-M*) Foams can be made in combination with Whispermat™ barrier systems when both absorption and transmission loss is needed (see Whispermat brochure), or VE™ damping systems, when enhanced vibration control is required. (see VE damping brochure).

### Pressure Sensitive Adhesive

Supported SBR (temps to 60°C/140°F)  
Unsupported Acrylic (temps to 120°C/250°F)  
Supported Acrylic (temps to 120°C/250°F)

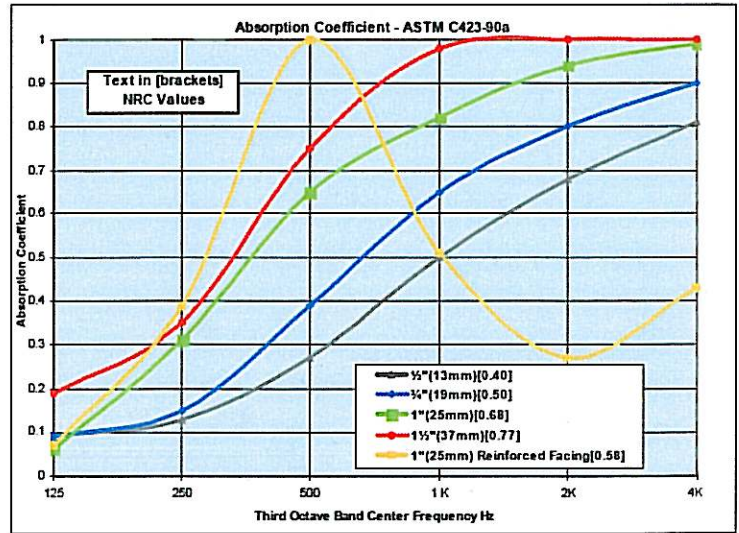


Figure 1 Absorption Performance for various thicknesses of HC-M Foams

### Standard Sizes

Sheets: 48" x 24" or 48" or 96"(1200mm x 600mm or 1200mm or 2400mm)

Standard Thickness: 1/4" to 18"(6mm to 450mm)