



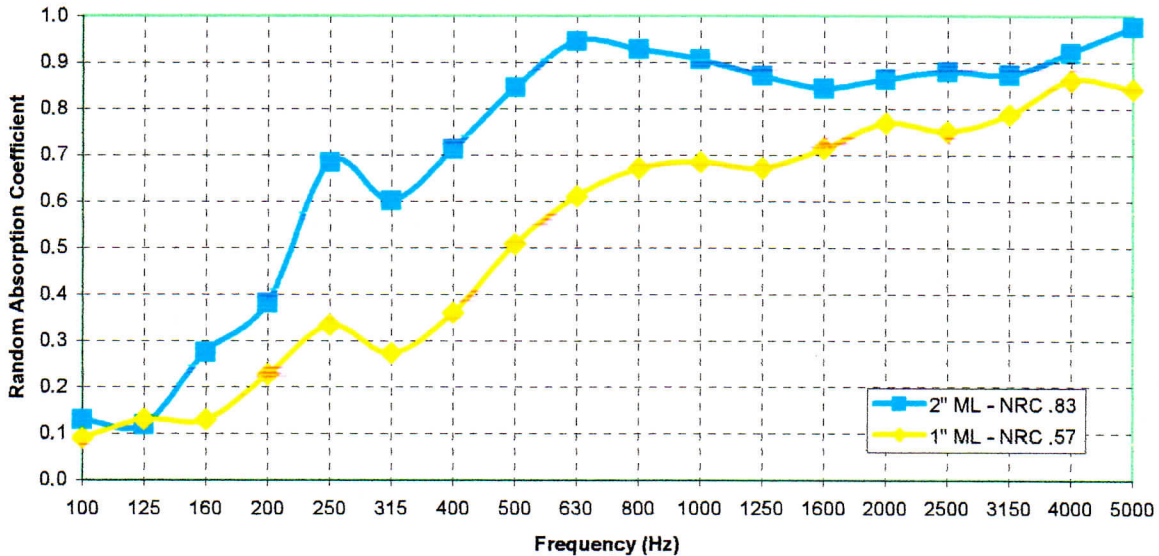
Technical Data Sheet

SOUNDFOAM® - ML HY

SOUNDFOAM® ML HY is a light weight, flexible, open-cell, melamine based acoustic quality foam that has been treated to provide both hydrophobic (water repellant) and oleophobic (oil repellant) properties. **SOUNDFOAM® ML HY** has excellent flammability resistance* and meets the requirements of FAR 25.856(a). It does not drip upon ignition, ceases to burn after removal of source of ignition, and produces a minimal amount of smoke. Compared with some glass-fiber based acoustical products, **SOUNDFOAM® ML HY** has better strength, lower compression set, and higher resilience. It is especially designed for use as acoustic or thermal insulation in aircraft and other applications where moisture and oil resistance, light weight, heat resistance, and fire safety are of utmost concern. It is available with decorative and protective surface finishes of PEKK, PEEK, Kapton®, Tedlar®, Nomex®, Nomex®/Tedlar®, etc.

ACOUSTICAL PROPERTIES

1" and 2" Soundfoam ML
ASTM C423 Random Absorption Test



TYPICAL PHYSICAL PROPERTIES

Foam Type:		Type G	Type UL (Ultra-Lite)
Color:		Gray	Yellow
Density kg/m ³ (lb/ft ³):	ASTM D3574	9 (.562)	6 (.375)
Density Tolerance kg/m ³ (lb/ft ³):		+2/-1 (.125/.0624)	+2/-2 (.125/.125)
Tensile kPa (PSI):	ASTM D3574	>120 (17.4)	>80 (11.6)
Elongation %:	ASTM D3574	>20	>16
Minimum Application Temperature °C (°F):		-43 (-45)	-43 (-45)
Maximum Application Temperature °C (°F):	ASTM D3045	1000 h - 220 (428) 5000 h - 200 (392) 20000 h - 180 (356)	1000 h - 220 (428) 5000 h - 200 (392) 20000 h - 180 (356)
Flammability*:	FAR 25.856 (a) FAR 25.853 (a) UL 94 HF-1 UL 94 V0 ASTM E-162 ASTM E-662 ASTM E-84	Passes Passes Passes Passes <25 <100 25/50	Passes Passes Passes Passes <25 <100 25/50
Toxicity	BSS 7239	Pass (Results Available)	Pass (Results Available)
Thermal Conductivity W/mK (BTU-in/hr-ft ² -°F)	ASTM C177	0.035 (.25)	0.035 (.25)
Moisture Resistant % (By Weight)	ASTM D2842	< 3.5 (at 1" Thickness)	< 3.5 (at 1" Thickness)
Oil Resistance	AATCC 118	8	8
Thickness mm (in.)		6.35 - 76.2 (0.25 - 3)	
Sheet Size		1219 X 2032 (48 X 80)	
Custom Sizes Available		Yes	Yes
Surface Treatments Available			
PEKK		Yes	Yes
PEEK		Yes	Yes
Kapton®		Yes	Yes
Tedlar®		Yes	Yes
Nomex®		Yes	Yes
Metalized Polyester		Yes	Yes
Kapton®, Tedlar®, Nomex® are trademarks of the E. I. duPont de Nemours & Company			

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* This numerical flame spread rating is not intended to reflect hazards presented by this or any other material under actual fire conditions. The Federal Trade Commission consider 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 methods, such as FAR 25.856, FAR 25.853, ASTM D-162, 662, ASTM E-84 and UL-94, are intended only as measurements of the performance of such materials under specific, controlled test conditions.