

Melamine Foam

DESCRIPTION:

Melamine Foam is a lightweight, open-cell material. It is recommended for acoustical and thermal insulation in a large variety of applications due to its outstanding resistance to high heat, smoke, and low flame propagation. Melamine Foam does not drip in the presence of a flame and immediately stops burning after removal of any external ignition source and fuel. To accommodate a wide variety of applications, Melamine Foam is available with film facings.

Polyurethane film is a tough, abrasion-resistant film surface that resists punctures and tears. It also exhibits good resistance to chemicals and moisture. Tedlar® PVF film is a tough, durable, preformed polyvinyl fluoride film. The unique weathering, mechanical, electrical, chemical, and stain-resistant properties of Tedlar® make it an ideal protective surfacing material. The Reinforced Aluminum Facing gives Melamine Foam extra protection in high heat applications.

APPLICATIONS:

Melamine Foam is used in areas where echo, and other reverberation, needs to be controlled. Applications include restaurants and cafeterias, office buildings, manufacturing facilities, and machine enclosures.

PRODUCT AVAILABILITY:

- 1 in. x 24 in. x 48 in. Sheets (Part #: MAF102X4)
 - 1 in. x 24 in. x 48 in. Sheets with Reinforced Aluminum Facing (Part #: MAF102X4RAL)
 - 1 in. x 24 in. x 48 in. Sheets with Tedlar® Facing (Part #: MAF102X4TED)
 - 1 in. x 24 in. x 48 in. Sheets with Bone Urethane Facing (Part #: MAF102X4BON)
 - 1 in. x 24 in. x 48 in. Sheets with Silver Mylar Facing (Part #: MAF-TF-124-MYPSA)
- Custom sizes available

TECHNICAL DATA:

Physical Property	Value	Test Standard
Color	White	n/a
Thickness	1"	n/a
Density	0.59 lbs/in ² min	ASTM D-3574-86
Elongation	10% min	ASTM D-3574-86
Tensile Strength	17.4 lbs/in ² min	ASTM D-3574-86
Tear Strength	3.8 lbs/in ² min	ASTM D-3574-86

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TECHNICAL DATA: (CONT.)

Physical Property	Value	Test Standard
Temperature Range	-45°F – 300°F	n/a
Continuous Temp. Range	-45°F – 300°F	n/a
Intermittent Temp. Range	+392°F	n/a
Compression Set	@ 50% = 6.2%, @ 75% = 8.5%	ASTM D-3574-86
Thermal Conductivity	0.25BTU in/hr ft ² °F @ 68 °F	ASTM C-177 & C-518
Flammability	Meets	UL 94 HF-1
	Meets	UL 94 V-0
	Meets	UL 94-5 V
	Meets	FAR 25.856(a), App F, Part 1 (a)(l)(i)
	After Flame: 0 Seconds Flame Propagation: 0 Seconds	FAR 25.856 (BSS7365)
Flammability – cont.	Ds (4.0 min.) = 88 Non Flaming: Ds (1.5 min.) = 23 Ds (4.0 min.) = 38	ASTM E 662
	Flame Spread 5 Smoke Developed 35	ASTM E 84
	Flame Spread Factor 2.25 Heat Evolution Factor 2.17 Flame Spread Index 4.62	ASTM E 162
	Meets	BSS7239
	Class 0	BS 476, part 6 & 7

**RANDOM SOUND ABSORPTION / NOISE REDUCTION:
(Without / With 0.001” Film Facing)**

Freq. Hz	125	250	500	1000	2000	4000	NRC
1” Foam (%)	18/23	23/38	50/64	82/98	96/82	99/80	65/70



BONE URETHANE FACING:

Physical Property	Value	Test Standard
Color	Bone	n/a
Thickness	0.003" to 0.0035"	n/a
Flammability	Meets	UL 94 V-0

TEDLAR® FACING:

Physical Property	Value	Test Standard
Color	Gray	n/a
Thickness	0.001"	n/a

REINFORCED ALUMINUM FACING:

Physical Property	Value	Test Standard
Color	Aluminum	n/a
Thickness	0.003"	n/a
Continuous Temp. Range	-45°F – 400°F	n/a

The information contained herein is typical and based upon the results of controlled laboratory tests. The information is accurate to the best of American Micro Industries, Inc.'s knowledge. Product performance may vary based on the particular application and installation techniques utilized.

