

Mega Block™ Hydrophobic Melamine Foam + Heat Shield

SPEC SHEET

- ✓ Reflects 98% Radiant Heat
- ✓ Super Lightweight
- ✓ Peel & Stick Install
- ✓ Thermally Insulating
- ✓ Class A Fire Rated
- ✓ OEM Approved



Material:	Hydrophobic, Open Cell Melamine Foam, Aluminum Foil
Patterns:	Flat, Non-Fibrous Sheets, Foil Facing
Features:	Reflects 98% of Radiant Heat, Improves Acoustics, Super Lightweight, Peel & Stick Install, Thermally Insulating, Class A Fire Rated, OEM Approved, Hydrophobic, Aerospace/Transportation/Architectural Approved, Non-Fibrous, Non-Toxic
Application:	Hoods, Firewalls, Car Roofs, Boat Engine Covers, Aviation, Aerospace, Trains, Subways, Buses, Ambulances, Generator Boxes, Server Racks
Thickness:	1/2" or 1"
Size:	24" x 24" (4 sq ft) ; Up to 48" x 96" Available by Request
Weight	0.5 lbs
Color:	Smoke White
R-Value:	4.16 per inch
Temperature Rating:	-40°F to 400°F (-350°F to 350°F without adhesive)
Flammability:	ASTM E84, Class A Flame Spread: <25 Smoke Developed: <50
Installation:	Peel & Stick

Material Testing

Tested Properties	Testing Method	Performance
Horizontal Burning	UL 94 HF-1	Pass
Vertical Burning	UL 94 V-0	Pass
60 Sec Vertical	FAR 25.853 (a, i)	Burn Time (Avg): 0 Seconds Burn Length (Avg): 2" Drip Extinguish Time: No Drip
Radiant Panel	FAR 25.856, BSS7365, AITM 2.0053	After Flame: 0 Seconds Flame Propagation: < 1"
Smoke Generation	ASTM 662-83, BSS7238	Flaming: Ds (1.5 min) = 57 Ds (4.0 min) = 77
Toxicity	BSS7239	Pass
Steiner Tunnel, 1" thick	ASTM E 84	Flame Spread < 25 Smoke Developed < 50
Surface Flammability	ASTM E 162-83	Flame Spread factor 1.83 Heat Evolution factor 2.50 Flame Spread index 4.62
Railway Fire Classification	DIN 5510	Flammability: S4 Smoke: SR2 Drips: ST2
Water Absorption	ASTM D2842, B	<1.5% after 15 mins <4% after 96 hrs
Water Repellency	PTI Internal	35% Average weight gain, max (note: standard melamine foam avg. weight gain is over 10,000%; Polyimide foam avg. Weight gain is over 400%)

Foil Heat Shield Specifications

Tested Properties	Rating
Base Fabric Type	Plain Weave Fiberglass
Aluminum Foil Thickness	0.001 inches
Composite Characteristics:	
Thickness (ASTM-D1777-96):	0.02" (Nominal)
Weight (ASTM-D-3776-96):	0.1225 lb/sft (Typical)
Tensile Strength (ASTM-D-5035-95):	Warp-75 lb/in Fill- 50 lb/in
Flame Resistance (FED 191/5903-2):	
Flame Out	1 sec max
Afterglow	1 sec max
Char Length	1 inch max
Temperature Range:	
Composite	*-40°F to 1,000°F
1000°F requires 2" between the heat shield and the heat source	*PSA Temperature Range: -40°F to 450°F

Noise Reduction Coefficient

Size	Test Mount	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
Mega Block™ - 1/2"	A-Mount	0.11	1.12	1.25	1.42	0.77	0.94	0.40
Mega Block™ - 1"	A-Mount	0.18	0.23	0.50	0.82	0.99	0.99	0.65