

Melamine

Description:

This is a low density, high temperature foam material which minimizes the problems of toxicity, carcinogens and airborne fibers. It is highly fire resistant, with a service temperature between -150°F up to +356°F, and has low smoke generation, produces low out gassing and has outstanding thermal and acoustical properties.

Typical Physical Properties

Specification	Typical Results
Density	0.7 lbs./ft ³
Elongation	10%
Compression Set:	
@ 50%	6.2%
@ 75%	8.5%
@ 90%	14.4%
Indention Force Deflection	
@ 25%	82 lbs./ft
@ 75%	356 lbs./ft
Heat Conductivity (K factor)	0.25 at 68°F
Ozone/UV Resistance	Resistant to ozone but should not be exposed to strong UV radiation
Chemical Resistance	Resistant to organic solvents and various diluted acids and alkali
Flammability (2" thick sample)	
FMVSS 302 (Automotive)	Pass
UL-94 (Electronics)	HBF, HF1, V-O: Pass
FAR 25.853 (Aviation)	Pass
ASTM E-84 Steiner Tunnel Test	Flame Spread: 2.5 Smoke Density: 16.9

Chemical Resistance

Solvent/Chemical	Type	Typical Results
Distilled Water		0
Bases	Sodium Hydroxide (50%) Ammonia (25%)	0 -
Acids	Hydrochloric acid (10%) Conc. Hydrochloric acid (38%) Nitric acid (10%) Sulfuric acid (10%) Conc. Sulfuric acid (10%) Phosphoric acid (50%) Acetic acid (90%) Formic acid (90%) Lactic acid (5%) Citric acid (5%)	- - - - - - 0 0 0 -
Salt Solutions	Sea water (NaCl-sol. 3.6%)	0
Hydrocarbons	Light Petrol (60 to 140°C) Heavy Petrol (155 to 185°C) Paraffin Oil Methylene Chloride Toluene	+ + + + +
Alcohols	Methanol Ethanol Isopropanol Butanol Glykolmonoethylether Glycerin	+ + + + + +
Esters	Butyacetat	+
Ketone	Acetone	+
Other Solvents	Diethylether	+

+: Resistant

0: Limited Resistance

-: Not Resistant

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