

Temp-Sonic FG

Temp-Sonic FG is a 100% needle-punched e-glass non-woven made for a number of acoustical and thermal applications.

Designed for continuous operating temperatures up to 1000° F (550° C) and excursions up to 1200° F (640° C), Temp-Sonic FG is your "go to" option for for any temperature sensitive application.

Features

- Low thermal conductivity
- Good conformity to irregular surfaces
- 0-flame spread, 0-smoke generation
- Non-respirable fibers
- Excellent vibration resistance, will not powder
- Excellent sound absorption properties

Applications

- Heat Shields
- Acoustic Absorbers
- Headliners
- Hoodliners
- Front of Dash

Chemical Composition

Main Elements	Percentage
SiO ₂	52-56%
Al ₂ O ₃	12-16%
CaO	12-25%
MgO	0-6%
B ₂ O ₃	8-13%
Na ₂ O, K ₂ O	0-0.8%
TiO ₂	0-0.4%
Fe ₂ O ₃	0.05-0.4%



Products Available

Thickness	Density	Max. Width
1/8 inch (3 mm)	7.5 to 10 lbs/ft ³ (120 to 160 kg/m ³)	60 inch (152 cm)
1/4 inch (6 mm)	7 to 10.5 lbs/ft ³ (110 to 170 kg/m ³)	60 inch (152 cm)
1/2 inch (12 mm)	7.5 to 12.5 lbs/ft ³ (120 to 200 kg/m ³)	60 inch (152 cm)

Technical Data

Properties E-Mat 1200	British	SI
Thermal Conductivity	K = Btu x in / hr / sq.ft. x ft. / deg F	W/(mK)
	300°F (149°C)	0.40 100°C (212°F)
	500°F (260°C)	0.50 200°C (392°F)
	700°F (371°C)	0.65 300°C (572°F)
		400°C (752°F)
Temperature Limit	Continuous Use	1000°F 500°C
	Intermittent	1200°F 650°C
	Melting Point	2050°F 1120°C
Average Filament Diameter	6 to 9 μm	
Color	White	
Thickness	1/8 inch to 1 inch	3 mm to 25 mm
Density (Depending On Thickness)	7 to 13.7 lbs/ft ³	110 to 220 kg/m ³

All data and statements concerning these products may be considered as being indicative of representative properties and characteristics obtainable. Since industry practices vary, we make no warranty, express or implied, concerning their use, nor do we accept responsibility for any misapplications of these products, or their use under any conditions.