

E-GLASS MAT DATA SHEET

About the Product

Pyro Shield's e-glass is manufactured to conform with the requirements of Military Specification MIL-1-16411 Type II, ASTM-C-1086-96, and Coast Guard Specification for Incombustible Materials #164.009 and MIL-I-24244. Our e-glass is a fiberglass mat composed of 100% "E" type glass fibers 9-13 microns in diameter which are put into web form and mechanically needled together without chemical binders. This mat is an effective, low cost replacement for asbestos mats, millboard, ceramic or refractory fiber paper, mat and sheets and mineral fiber boards. It's used as a thermal insulation and gasket material in home and industrial furnaces, package boiler and for special piping applications where heat resistance, flexibility, and low special air and liquid chemical and thermal resistance are necessary.



Product Info

	1/2"	1"
Color/Appearance	White	White
Width (in)	60"	60"
Roll Length (ft)	75ft	45ft
Area (ft ² /roll)	375 ft ²	225 ft ²
Density (lbs/ft ³)	9lb/ft ³	11lb/ft ³
Weight (lbs/roll)	190 lbs	247 lbs
Thickness	12	25

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Sound Absorption

Mat Type	HZ 250	HZ 500	HZ 1000	HZ 2000	HZ 4000
1/2"	.07+-.02	.24+-.01	.55+-.01	.79+-.02	.91+-.02
1"	.15+-.04	.80+-.03	1.02+-.02	1.08+-.02	.92+-.02

Noise Reduction: 1/2": 0.40 1": 0.70

Mean Temperatures

75°F	0.29 BTU-In/Hr-ft.2-°F
300°F	0.40 BTU-In/Hr-ft.2-°F
500°F	0.50 BTU-In/Hr-ft.2-°F
700°F	0.65 BTU-In/Hr-ft.2-°F

Tensile Strength

1" Machine	125 lbs
1" Cross-Machine	90 lbs
1/2" Machine	80 lbs
1/2" Cross-Machine	60 lbs

Thermal Conductivity

"K" Value for 1 Inch Thick | "K" BTU-Inch/Hour-ft²-°F

Service Temperature: 1,200°F **Construction:** Random Fiber Orientation

Flame Resistance: ASTM E-84 **Flame Spread:** 0 **Smoke Developed:** 0

*All statements are expressed opinion which we believe to be accurate, reliable, and presented without guarantee or responsibility on our part. The data presented above consists of typical properties and should not be used in preparing specifications. No warranties are expressed or implied and users should test this material thoroughly for their specific application.