

Pyrotek E-1 Board Structural Insulating Board

Category : Ceramic

Material Notes:

E-1 is a high-temperature board designed to combine structural strength and high insulating value. Structural insulation panels made from E-1 can be painted. Fibers generated while cutting E-1 are classified by OSHA as nuisance dust only. Applications Structural insulation panels Furnace insulation Machined parts Advantages Strong light weight material Easily cut and machined Economical Information provided by Pyrotek.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Pyrotek-E-1-Board-Structural-Insulating-Board.php

Physical Properties	Metric	English	Comments
Density	0.736 g/cc	0.0266 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	0.380 MPa	55.1 psi	across grain
	1.39 MPa	202 psi	with grain
Shear Strength	0.690 MPa	100 psi	across grain
	2.79 MPa	405 psi	with grain

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.124 W/m-K	0.861 BTU-in/hr-ft ² -°F	
	@Temperature 538 °C	@Temperature 1000 °F	
Maximum Service Temperature, Air	704 °C	1300 °F	Continuous use
	1093 °C	1999 °F	

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