

Pyrotek Pyrotherm M-68 Structural Insulation Board

Category : Ceramic , Oxide , Silicon Oxide

Material Notes:

Pyrotherm M-68 is a calcium-silicate board designed for non-ferrous applications. M-68 offers a unique combination of low shrinkage, low thermal conductivity and non-wetting properties which make it well suited for a variety of applications. Applications Distribution boxes Dams Baffles Launderers Troughs Holding furnace linings Advantages Non-wetting Excellent thermal insulation Does not require insulation Does not require pre-heating Crack resistant Shock resistant Durable Minimal shrinkage Information provided by Pyrotek.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Pyrotek-Pyrotherm-M-68-Structural-Insulation-Board.php

Physical Properties	Metric	English	Comments
Density	1.089 g/cc	0.03934 lb/in ³	
Loss On Ignition	4.6 %	4.6 %	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.0103 GPa	1.49 ksi	
Compressive Strength	22.1 MPa	3210 psi	at ultimate load

Thermal Properties	Metric	English	Comments
CTE, linear	7.10 $\mu\text{m}/\text{m}\cdot\text{°C}$	3.94 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.280 W/m-K	1.94 BTU-in/hr-ft ² -°F	
	@Temperature 200 °C	@Temperature 392 °F	
	0.280 W/m-K	1.94 BTU-in/hr-ft ² -°F	
	@Temperature 300 °C	@Temperature 572 °F	
	0.300 W/m-K	2.08 BTU-in/hr-ft ² -°F	
	@Temperature 400 °C	@Temperature 752 °F	
	0.320 W/m-K	2.22 BTU-in/hr-ft ² -°F	
	@Temperature 450 °C	@Temperature 842 °F	
Maximum Service Temperature, Air	788 °C	1450 °F	Continuous use
	816 °C	1500 °F	
Shrinkage	0.120 %	0.120 %	Length
	@Temperature 732 °C, Time 86400 sec	@Temperature 1350 °F, Time 24.0 hour	

Thermal Properties	Metric	English	Comments
	@Temperature 732 °C, Time 86400 sec	@Temperature 1350 °F, Time 24.0 hour	Width
	1.29 %	1.29 %	Thickness
	@Temperature 732 °C, Time 86400 sec	@Temperature 1350 °F, Time 24.0 hour	

Descriptive Properties	Value	Comments
Screw Grip (Pull) Penetration Depth	109 kg	22 mm

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