

Pyrotek AFB-2300 HT Structural Board

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

AFB-2300 HT is a ceramic fiber board which features a unique alumina-based binder. This white board is heat-treated to eliminate all possible out-gassing and withstands temperatures up to 1260°C. Heat Treatment for 12 hours: 816°C Applications: Caster tips, Metal contact insulation board. Advantages: Low thermal conductivity, Resistant to moisture, Dimensional stability, No thermal shock, No out-gassing. Alumina binder system. Information provided by Pyrotek.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Pyrotek-AFB-2300-HT-Structural-Board.php

Physical Properties	Metric	English	Comments
Density	0.450 - 0.480 g/cc	0.0163 - 0.0173 lb/in³	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.0172 - 0.0207 GPa	2.49 - 3.00 ksi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0660 W/m-K	0.458 BTU-in/hr-ft²-°F	
	@Temperature 260 °C	@Temperature 500 °F	
	0.104 W/m-K	0.722 BTU-in/hr-ft²-°F	
	@Temperature 538 °C	@Temperature 1000 °F	
	0.151 W/m-K	1.05 BTU-in/hr-ft²-°F	
	@Temperature 816 °C	@Temperature 1500 °F	
Maximum Service Temperature, Air	1260 °C	2300 °F	Continuous
Shrinkage	0.500 %	0.500 %	
	@Temperature 649 °C, Time 86400 sec	@Temperature 1200 °F, Time 24.0 hour	Linear
	0.700 %	0.700 %	
	@Temperature 760 °C, Time 86400 sec	@Temperature 1400 °F, Time 24.0 hour	Linear
	1.50 %	1.50 %	
	@Temperature 870 °C, Time 86400 sec	@Temperature 1600 °F, Time 24.0 hour	Linear
	2.60 %	2.60 %	
	@Temperature 982 °C, Time 86400 sec	@Temperature 1800 °F, Time 24.0 hour	Linear

Thermal Properties	Metric	English	Comments
Component Elements Properties	Metric	English	Comments
Al2O3	50.4 %	50.4 %	
Fe2O3	0.40 %	0.40 %	
SiO2	48.5 %	48.5 %	
TiO2	0.70 %	0.70 %	

Descriptive Properties	Value	Comments
Screw Grip (Pull) Penetration Depth	110 kg	19 mm
	115 kg	22 mm

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