

Pyrotek PTB 2200 Structural Board

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

ApplicationsCaster tips Small machined nozzles Slotted caster tips AdvantagesHigh strength Resistant to thermal shock Easily machined

Non-wetting to molten non-ferrous metals Low thermal mass High temperature stability Excellent insulation properties Zero out-gassing

Information provided by Pyrotek.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Pyrotek-PTB-2200-Structural-Board.php

Physical Properties	Metric	English	Comments
Density	0.480 - 0.640 g/cc	0.0173 - 0.0231 lb/in ³	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00140 GPa	0.203 ksi	parallel to grain
	0.00620 GPa	0.899 ksi	perpendicular to grain
Compressive Strength	4.10 MPa	595 psi	Thickness
	17.9 MPa	2600 psi	Length

Thermal Properties	Metric	English	Comments
CTE, linear	0.900 $\mu\text{m/m-}^{\circ}\text{C}$	0.500 $\mu\text{in/in-}^{\circ}\text{F}$	thickness
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
	1.10 $\mu\text{m/m-}^{\circ}\text{C}$	0.611 $\mu\text{in/in-}^{\circ}\text{F}$	Length
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Thermal Conductivity	0.0700 W/m-K	0.486 BTU-in/hr-ft ² - $^{\circ}\text{F}$	
	@Temperature 204 $^{\circ}\text{C}$	@Temperature 399 $^{\circ}\text{F}$	
	0.0900 W/m-K	0.625 BTU-in/hr-ft ² - $^{\circ}\text{F}$	
	@Temperature 425 $^{\circ}\text{C}$	@Temperature 797 $^{\circ}\text{F}$	
	0.110 W/m-K	0.763 BTU-in/hr-ft ² - $^{\circ}\text{F}$	
	@Temperature 630 $^{\circ}\text{C}$	@Temperature 1170 $^{\circ}\text{F}$	
	0.150 W/m-K	1.04 BTU-in/hr-ft ² - $^{\circ}\text{F}$	
	@Temperature 980 $^{\circ}\text{C}$	@Temperature 1800 $^{\circ}\text{F}$	
Maximum Service Temperature, Air	1204 $^{\circ}\text{C}$	2199 $^{\circ}\text{F}$	Continuous
	1.60 %	1.60 %	

Shrinkage Thermal Properties	Metric @ Temperature 1350 °C, Time 86400 sec	English @ Temperature 2460 °F, Time 24.0 hour	Linear Comments
	10.0 %	10.0 %	Thickness
	@Temperature 1350 °C, Time 86400 sec	@Temperature 2460 °F, Time 24.0 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	36 %	36 %	
Other	5.0 %	5.0 %	
SiO2	59 %	59 %	

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