

Pyrotek Pyrocast ZI Refractory Shapes

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Aggregate Base: BauxiteApplicationsCrucible bottoms Information provided by Pyrotek.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Pyrotek-Pyrocast-ZI-Refractory-Shapes.php

Physical Properties	Metric	English	Comments
Density	2.93 g/cc	0.106 lb/in ³	

Mechanical Properties	Metric	English	Comments
Compressive Strength	68.95 - 96.53 MPa	10000 - 14000 psi	after 816°C
Abrasion	4.0 - 8.0	4.0 - 8.0	Resistance (CC Loss) ASTM C704

Thermal Properties	Metric	English	Comments
CTE, linear	7.92 $\mu\text{m}/\text{m}\cdot\text{°C}$	4.40 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	2.10 W/m-K	14.6 BTU-in/hr-ft ² -°F	
	@Temperature 538 °C	@Temperature 1000 °F	
Maximum Service Temperature, Air	1760 °C	3200 °F	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	75.2 %	75.2 %	

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