

Pyrotek Pyrocast PT-190 Refractory Cast Parts

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Pyrocast PT-190 is an extremely dense alumina based refractory. It is best suited for applications where high velocity metal erosion potential is a problem, due to its strength and abrasion resistant characteristics. Pyrocast PT-190 also provides excellent hot load strength. Pyrocast PT-190 is frequently used for applications such as launders, tap out and burner blocks, and door blades. Information provided by Pyrotek.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Pyrotek-Pyrocast-PT-190-Refractory-Cast-Parts.php

Physical Properties	Metric	English	Comments
Density	2.88 g/cc	0.104 lb/in ³	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00800 GPa	1.16 ksi	
	@Temperature >= 110 °C	@Temperature >= 230 °F	
	0.0220 GPa	3.19 ksi	
	@Temperature 1095 °C	@Temperature 2003 °F	
	0.0300 GPa	4.35 ksi	
	@Temperature 1370 °C	@Temperature 2500 °F	
Flexural Strength	22.0 MPa	3190 psi	
Compressive Strength	31.0 MPa	4500 psi	
	@Temperature 110 °C	@Temperature 230 °F	
	110 MPa	16000 psi	
	@Temperature 1095 °C	@Temperature 2003 °F	
	166 MPa	24100 psi	
	@Temperature 1370 °C	@Temperature 2500 °F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.84 W/m-K	12.8 BTU-in/hr-ft ² -°F	
	@Temperature 1093 °C	@Temperature 1999 °F	
	1.94 W/m-K	13.5 BTU-in/hr-ft ² -°F	
	@Temperature 815 °C	@Temperature 1500 °F	

Thermal Properties	Metric	English	Comments
	@Temperature 538 °C	@Temperature 1000 °F	
	2.71 W/m-K	18.8 BTU-in/hr-ft²-°F	
	@Temperature 260 °C	@Temperature 500 °F	
Maximum Service Temperature, Air	1540 °C	2800 °F	
Shrinkage	0.100 %	0.100 %	Linear
	@Temperature 1090 °C	@Temperature 1990 °F	

Component Elements Properties	Metric	English	Comments
Al2O3	94.4 %	94.4 %	
CaO	1.1 %	1.1 %	
Other	0.20 %	0.20 %	
SiO2	4.3 %	4.3 %	

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