

Pyrotek Pyrocast PCR Abrasion-Resistant Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Pyrocast PCR is an abrasion resistant, thermal shock resistant castable. It is suitable to give exceptional resistance for conditions such as rapid heating or rapid cooling. Applications Carbon anode baking furnace flue port exhaust block Carbon anode baking furnace burner blocks Molten metal transfer troughs Precast shapes Annealing furnace caps Advantages Exceptional resistance to thermal shock High abrasion resistance Excellent strengths Information provided by Pyrotek.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Pyrotek-Pyrocast-PCR-Abrasion-Resistant-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Density	1.86 - 1.89 g/cc	0.0672 - 0.0683 lb/in ³	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00690 GPa	1.00 ksi	
	@Temperature 1095 °C	@Temperature 2003 °F	
	0.00760 GPa	1.10 ksi	
	@Temperature 1315 °C	@Temperature 2399 °F	
Compressive Strength	0.0110 GPa	1.60 ksi	
	@Temperature >=105 °C	@Temperature >=221 °F	
	31.7 MPa	4600 psi	
	@Temperature 1315 °C	@Temperature 2399 °F	
	49.0 MPa	7110 psi	
	@Temperature 1095 °C	@Temperature 2003 °F	
	79.4 MPa	11500 psi	
	@Temperature 105 °C	@Temperature 221 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	0.0290 µm/m-°C	0.0161 µin/in-°F	
	@Temperature 980 °C	@Temperature 1800 °F	
Thermal Conductivity	0.740 W/m-K	5.14 BTU-in/hr-ft ² -°F	
	@Temperature 538 °C	@Temperature 1000 °F	
	0.740 W/m-K	5.14 BTU-in/hr-ft ² -°F	

Thermal Properties	@Temperature 870 °C Metric	@Temperature 1600 °F English	Comments
	0.770 W/m-K	5.34 BTU-in/hr-ft ² -°F	
	@Temperature 205 °C	@Temperature 401 °F	
Maximum Service Temperature, Air	1315 °C	2399 °F	
Shrinkage	0.400 %	0.400 %	Linear
	@Temperature 815 °C	@Temperature 1500 °F	

Component Elements Properties	Metric	English	Comments
Al2O3	46.3 %	46.3 %	
CaO	6.0 %	6.0 %	
Fe2O3	0.80 %	0.80 %	
K2O+Na2O	0.30 %	0.30 %	
MgO	8.2 %	8.2 %	
SiO2	37 %	37 %	
TiO2	1.4 %	1.4 %	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China