

Chosun Refractories PT-150 Plastic Refractory

Category : Ceramic , Oxide , Silicon Oxide

Material Notes:

Information provided by Chosun Refractories via Korea Institute of Ceramic Engineering and Technology (KICET).

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chosun-Refractories-PT-150-Plastic-Refractory.php

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	3.37e-7 - 0.000491 GPa	0.0000489 - 0.0711 ksi	
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	0.002943 - 0.005886 GPa	0.4269 - 0.8537 ksi	
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	
Compressive Strength	2.94 - 7.85 MPa	427 - 1140 psi	Cold Crushing Strength
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	14.7 - 24.5 MPa	2130 - 3560 psi	Cold Crushing Strength
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.94215 W/m-K	6.5280 BTU-in/hr- ft ² -°F	
	@Temperature 500 °C	@Temperature 932 °F	
	1.0352 W/m-K	7.1727 BTU-in/hr- ft ² -°F	
	@Temperature 1000 °C	@Temperature 1830 °F	
Maximum Service Temperature, Air	1500 °C	2730 °F	limited
Shrinkage	-0.700 %	-0.700 %	
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	-0.100 %	-0.100 %	
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	38 %	38 %	
SiO2	54 %	54 %	

Descriptive Properties	Value	Comments
Main Applications	Spalling resistance	Various furnace
Material Required for Estimating (kg/?)	2,300	

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