

Chosun Refractories PTC-130S Plastic Refractory

Category : Ceramic

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-PTC-130S-Plastic-Refractory.php

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	3.85e-7 - 0.000981 GPa	0.0000558 - 0.142 ksi	
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	0.03924 - 0.07848 GPa	5.691 - 11.38 ksi	
	@Temperature 1300 °C, Time 10800 sec	@Temperature 2370 °F, Time 3.00 hour	
Compressive Strength	6.86 - 14.7 MPa	996 - 2130 psi	Cold Crushing Strength
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	9.81 - 17.7 MPa	1420 - 2560 psi	Cold Crushing Strength
	@Temperature 1300 °C, Time 10800 sec	@Temperature 2370 °F, Time 3.00 hour	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.5819 W/m-K	10.961 BTU-in/hr- ft ² -°F	
	@Temperature 500 °C	@Temperature 932 °F	
Maximum Service Temperature, Air	1300 °C	2370 °F	limited
Shrinkage	-0.500 %	-0.500 %	
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	1.5 %	1.5 %	
	@Temperature 1500 °C, Time 10800 sec	@Temperature 2730 °F, Time 3.00 hour	

Component Elements Properties	Metric	English	Comments
Cr2O3	25 - 30 %	25 - 30 %	

Descriptive Properties	Value	Comments
Main Applications	Dust Incinerator	
Material Required for Estimating (kg/?)	2,900	

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