

## Chosun Refractories PTC-165 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-165-Plastic-Refractory.php](http://www.lookpolymers.com/polymer_Chosun-Refractories-PTC-165-Plastic-Refractory.php)

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	7.70e-7 - 0.00490 GPa	0.000112 - 0.711 ksi	
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	0.00981 - 0.012753 GPa	1.42 - 1.8497 ksi	
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	
Compressive Strength	9.81 - 19.6 MPa	1420 - 2840 psi	Cold Crushing Strength
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	24.5 - 34.3 MPa	3560 - 4980 psi	Cold Crushing Strength
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.5237 W/m-K	10.558 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 500 °C	@Temperature 932 °F	
	1.6400 W/m-K	11.363 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 1000 °C	@Temperature 1830 °F	
Maximum Service Temperature, Air	1650 °C	3000 °F	limited
Shrinkage	-0.950 %	-0.950 %	
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	
	-0.500 %	-0.500 %	
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	

Component Elements Properties	Metric	English	Comments
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Component Elements Properties	Metric	English	Comments
<b>Descriptive Properties</b>	<b>Value</b>		<b>Comments</b>
Main Applications	Reaction resistance of slag Soaking pit Reheating furnace		
Material Required for Estimating (kg/?)	3,200		

## Contact Songhan Plastic Technology Co.,Ltd.

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