

## Chosun Refractories PTF-180 Plastic Refractory

Category : Ceramic , Oxide , Aluminum 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-PTF-180-Plastic-Refractory.php](http://www.lookpolymers.com/polymer_Chosun-Refractories-PTF-180-Plastic-Refractory.php)

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	5.77e-7 - 0.00294 GPa	0.0000837 - 0.427 ksi	
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	0.007848 - 0.010791 GPa	1.138 - 1.5651 ksi	
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	
	0.012753 - 0.015696 GPa	1.8497 - 2.2765 ksi	
	@Temperature 1500 °C, Time 10800 sec	@Temperature 2730 °F, Time 3.00 hour	
Compressive Strength	14.7 - 19.6 MPa	2130 - 2840 psi	Cold Crushing Strength
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	39.2 - 49.0 MPa	5690 - 7110 psi	Cold Crushing Strength
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	
	58.8 - 68.6 MPa	8530 - 9960 psi	Cold Crushing Strength
	@Temperature 1500 °C, Time 10800 sec	@Temperature 2730 °F, Time 3.00 hour	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.4074 W/m-K	9.7517 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 500 °C	@Temperature 932 °F	
	1.5819 W/m-K	10.961 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 1000 °C	@Temperature 1830 °F	
Maximum Service Temperature, Air	1800 °C	3270 °F	limited
	-0.200 %	-0.200 %	

Shrinkage Thermal Properties	Metric	English	Comments
	@ Temperature 110 °C, Time 86400 sec	@ Temperature 230 °F, Time 24.0 hour	
	0.15 %	0.15 %	
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	
	0.20 %	0.20 %	
	@Temperature 1500 °C, Time 10800 sec	@Temperature 2730 °F, Time 3.00 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	90 %	90 %	
SiO2	8.0 %	8.0 %	

Descriptive Properties	Value	Comments
Main Applications	Air set Corrosion resistance Abrasion resistance High strength special bond	
Material Required for Estimating (kg/?)	3,100	

## Contact Songhan Plastic Technology Co.,Ltd.

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