

## Chosun Refractories PTA-175 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-PTA-175-Plastic-Refractory.php](http://www.lookpolymers.com/polymer_Chosun-Refractories-PTA-175-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	
	0.0034335 - 0.0063765 GPa	0.49799 - 0.92485 ksi	
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	
	0.0034335 - 0.0063765 GPa	0.49799 - 0.92485 ksi	
	@Temperature 1500 °C, Time 10800 sec	@Temperature 2730 °F, Time 3.00 hour	
Compressive Strength	4.90 - 9.81 MPa	711 - 1420 psi	Cold Crushing Strength
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	29.4 - 39.2 MPa	4270 - 5690 psi	Cold Crushing Strength
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	
	29.4 - 39.2 MPa	4270 - 5690 psi	Cold Crushing Strength
	@Temperature 1500 °C, Time 10800 sec	@Temperature 2730 °F, Time 3.00 hour	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.338 W/m-K	9.268 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 500 °C	@Temperature 932 °F	
	1.5354 W/m-K	10.638 BTU-in/hr- ft <sup>2</sup> -°F	
	@Temperature 1000 °C	@Temperature 1830 °F	
Maximum Service Temperature, Air	1750 °C	3180 °F	limited
	-0.400 %	-0.400 %	

Shrinkage Thermal Properties	Metric	English	Comments
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	
	-0.350 %	-0.350 %	
	@Temperature 1500 °C, Time 10800 sec	@Temperature 2730 °F, Time 3.00 hour	
	-0.350 %	-0.350 %	
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	70 %	70 %	
SiO2	23 %	23 %	

Descriptive Properties	Value	Comments
Main Applications	Volume Stability	
Material Required for Estimating (kg/?)	2,600	

## Contact Songhan Plastic Technology Co.,Ltd.

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