

## Chosun Refractories PAC-160 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-PAC-160-Plastic-Refractory.php](http://www.lookpolymers.com/polymer_Chosun-Refractories-PAC-160-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	
	0.000981 - 0.003924 GPa	0.142 - 0.5691 ksi	
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	
	0.000981 - 0.003924 GPa	0.142 - 0.5691 ksi	
	@Temperature 1500 °C, Time 10800 sec	@Temperature 2730 °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	
	4.90 - 9.81 MPa	711 - 1420 psi	Cold Crushing Strength
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	
	4.90 - 9.81 MPa	711 - 1420 psi	Cold Crushing Strength
	@Temperature 1500 °C, Time 10800 sec	@Temperature 2730 °F, Time 3.00 hour	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.9305 W/m-K	6.447 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 500 °C	@Temperature 932 °F	
	1.0236 W/m-K	7.0921 BTU-in/hr- ft <sup>2</sup> -°F	
	@Temperature 1000 °C	@Temperature 1830 °F	
Maximum Service Temperature, Air	1600 °C	2910 °F	limited
	-1.50 %	-1.50 %	

Shrinkage Thermal Properties	Metric	English	Comments
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	0.20 %	0.20 %	
	@Temperature 1500 °C, Time 10800 sec	@Temperature 2730 °F, Time 3.00 hour	
	0.65 %	0.65 %	
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	

Component Elements Properties	Metric	English	Comments
SiC	17 - 23 %	17 - 23 %	

Descriptive Properties	Value	Comments
Main Applications	Corrosion resistant Cupola Spout	
Material Required for Estimating (kg/?)	2,260	

## Contact Songhan Plastic Technology Co.,Ltd.

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