

## Chosun Refractories HAPT-80S 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-HAPT-80S-Plastic-Refractory.php](http://www.lookpolymers.com/polymer_Chosun-Refractories-HAPT-80S-Plastic-Refractory.php)

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	9.62361e-7 - 0.00981 GPa	0.000139581 - 1.42 ksi	
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	0.014715 - 0.016677 GPa	2.1343 - 2.4188 ksi	
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	
Compressive Strength	19.6 - 29.4 MPa	2840 - 4270 psi	Cold Crushing Strength
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	49.0 - 58.8 MPa	7110 - 8530 psi	Cold Crushing Strength
	@Temperature 1500 °C, Time 10800 sec	@Temperature 2730 °F, Time 3.00 hour	
	58.8 - 68.6 MPa	8530 - 9960 psi	Cold Crushing Strength
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.3725 W/m-K	9.5099 BTU-in/hr- ft <sup>2</sup> -°F	
	@Temperature 500 °C	@Temperature 932 °F	
	1.5237 W/m-K	10.558 BTU-in/hr- ft <sup>2</sup> -°F	
	@Temperature 1000 °C	@Temperature 1830 °F	
Maximum Service Temperature, Air	1650 °C	3000 °F	limited
Shrinkage	-0.200 %	-0.200 %	
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	
	0.00 %	0.00 %	

Thermal Properties	Metric	English	Comments
	@ Temperature 110 °C, Time 86400 sec	@ Temperature 230 °F, Time 24.0 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	82 %	82 %	
SiO2	10 %	10 %	

Descriptive Properties	Value	Comments
Main Applications	Heat set Abrasion resistance High strength phosphate bond	
Material Required for Estimating (kg/?)	2,900	

## Contact Songhan Plastic Technology Co.,Ltd.

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