

Chosun Refractories TPA-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-TPA-175-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	
	0.00981 - 0.014715 GPa	1.42 - 2.1343 ksi	
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	
	0.00981 - 0.014715 GPa	1.42 - 2.1343 ksi	
	@Temperature 1500 °C, Time 10800 sec	@Temperature 2730 °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	
	29.4 - 39.2 MPa	4270 - 5690 psi	Cold Crushing Strength
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	
	24.5 - 44.1 MPa	3560 - 6400 psi	Cold Crushing Strength
	@Temperature 1500 °C, Time 10800 sec	@Temperature 2730 °F, Time 3.00 hour	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.3725 W/m-K	9.5099 BTU-in/hr-ft ² -°F	
	@Temperature 500 °C	@Temperature 932 °F	
	1.5237 W/m-K	10.558 BTU-in/hr-ft ² -°F	
	@Temperature 1000 °C	@Temperature 1830 °F	
Maximum Service Temperature, Air	1750 °C	3180 °F	limited
	-0.500 %	-0.500 %	

Shrinkage Thermal Properties	Metric	English	Comments
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	0.10 %	0.10 %	
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	
	0.85 %	0.85 %	
	@Temperature 1500 °C, Time 10800 sec	@Temperature 2730 °F, Time 3.00 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	73 %	73 %	
SiO2	25 %	25 %	

Descriptive Properties	Value	Comments
Main Applications	Hot work Plastic local erosion parts of lance or lable	
Material Required for Estimating (kg/?)	2,600	

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