

Chosun Refractories PTA-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-PTA-180-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	
	0.002943 - 0.005886 GPa	0.4269 - 0.8537 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	
	19.6 - 29.4 MPa	2840 - 4270 psi	Cold Crushing Strength
	@Temperature 1500 °C, Time 10800 sec	@Temperature 2730 °F, Time 3.00 hour	
	24.5 - 34.3 MPa	3560 - 4980 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 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	1800 °C	3270 °F	limited
	-0.350 %	-0.350 %	

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	
	0.30 %	0.30 %	
	@Temperature 1500 °C, Time 10800 sec	@Temperature 2730 °F, Time 3.00 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	81 %	81 %	
SiO2	13 %	13 %	

Descriptive Properties	Value	Comments
Main Applications	Corrosion resistance Spalling resistance Electric arc furnace roof	
Material Required for Estimating (kg/?)	2,850	

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