

Zircar Ceramics Z-500 Alumina-Silica Insulation

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Useful to temperatures of 1000°C (1832°F) Z-500 is uniformly rigidized and hard throughout its entire thickness, requiring no re-rigidizing after precision machining into complex shapes and configurations. Information provided by Zircar Ceramics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zircar-Ceramics-Z-500-Alumina-Silica-Insulation.php

Physical Properties	Metric	English	Comments
Density	0.800 g/cc	0.0289 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	94	94	No Scale Listed
Modulus of Rupture	0.00530 GPa	0.769 ksi	Parallel to Thickness
Compressive Yield Strength	2.80 MPa	406 psi	at 2% Compression, Parallel to thickness
	6.27 MPa	910 psi	at 10% Compression, Parallel to Thickness

Thermal Properties	Metric	English	Comments
CTE, linear	3.70 µm/m-°C	2.06 µin/in-°F	after initial firing
	@Temperature 20.0 - 900 °C	@Temperature 68.0 - 1650 °F	
Maximum Service Temperature, Air	1000 °C	1830 °F	
Shrinkage	0.700 %	0.700 %	Perpendicular to Thickness
	@Temperature 800 °C, Time 86400 sec	@Temperature 1470 °F, Time 24.0 hour	
	2.90 %	2.90 %	Perpendicular to Thickness
	@Temperature 1000 °C, Time 86400 sec	@Temperature 1830 °F, Time 24.0 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	36 %	36 %	
Fe2O3	0.30 %	0.30 %	
SiO2	63 %	63 %	
TiO2	0.70 %	0.70 %	

Component Elements Properties	Metric	English	Comments
Descriptive Properties		Value	Comments
Color		White	

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