

CeramTec Ziralit Zirconia Toughened Alumina (ZTA), Al₂O₃·ZrO₂

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

CeramTec's Zirconia Toughened Alumina (Ziralit) provides excellent strength, excellent temperature performance, and superior toughness. It has enhanced performance for high quantity volume production and tight tolerances designs. Ziralit provides considerable improvement in strength and toughness over standard silicate products used in the fuse market. Due to its high temperature performance, the material has demonstrated successful application in the telecommunication fuse market where demanding requirements of 600V and 60A are typical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CeramTec-Ziralit-Zirconia-Toughened-Alumina-ZTA-Al2O3ZrO2.php

Physical Properties	Metric	English	Comments
Density	3.80 g/cc	0.137 lb/in ³	
Water Absorption	0.00 %	0.00 %	

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	200 GPa	29000 ksi	
Flexural Strength	335 MPa	48600 psi	4 point

Thermal Properties	Metric	English	Comments
CTE, linear	7.60 μm/m-°C	4.22 μin/in-°F	
	@Temperature 20.0 - 200 °C	@Temperature 68.0 - 392 °F	
	8.20 μm/m-°C	4.56 μin/in-°F	
	@Temperature 20.0 - 500 °C	@Temperature 68.0 - 932 °F	
Specific Heat Capacity	0.800 J/g-°C	0.191 BTU/lb-°F	
	@Temperature 20.0 - 100 °C	@Temperature 68.0 - 212 °F	
Thermal Conductivity	13.0 W/m-K	90.2 BTU-in/hr-ft ² -°F	
	@Temperature 20.0 - 100 °C	@Temperature 68.0 - 212 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.30e+7 ohm-cm	5.30e+7 ohm-cm	
	@Temperature 600 °C	@Temperature 1110 °F	

Electrical Properties	1.40e+13 ohm-cm Metric	1.40e+13 ohm-cm English	Comments
	@Temperature 100 °C	@Temperature 212 °F	
	8.80e+15 ohm-cm	8.80e+15 ohm-cm	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Dielectric Strength	30.0 kV/mm	762 kV/in	

Descriptive Properties	Value	Comments
Color	White	
Thermal Shock Resistance R1 (K)	130	
Withstand Voltage (kV)	> 15	

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