

Anderman Ceramics EAZ 20 Zirconia Toughened Alumina

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Zirconia materials offer high temperature capability as well as excellent performance in areas of high wear and corrosion. Available in many shapes and sizes.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Anderman-Ceramics-EAZ-20-Zirconia-Toughened-Alumina.php

Physical Properties	Metric	English	Comments
Density	4.30 g/cc	0.155 lb/in ³	
Open Porosity	0.00 %	0.00 %	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	16	16	
Tensile Strength	290 MPa	42000 psi	
Flexural Strength	448 MPa	65000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	8.30 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	4.61 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
Thermal Conductivity	27.0 W/m-K @Temperature 20.0 - 100 $^\circ\text{C}$	187 BTU-in/hr-ft ² - $^\circ\text{F}$ @Temperature 68.0 - 212 $^\circ\text{F}$	
Maximum Service Temperature, Air	1500 $^\circ\text{C}$	2730 $^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	77 %	77 %	
ZrO ₂	23 %	23 %	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+9 ohm-cm @Temperature 600 $^\circ\text{C}$	1.00e+9 ohm-cm @Temperature 1110 $^\circ\text{F}$	
	1.00e+14 ohm-cm @Temperature 20.0 $^\circ\text{C}$	1.00e+14 ohm-cm @Temperature 68.0 $^\circ\text{F}$	
	10.6	10.6	

Electrical Properties	Metric	English	Comments
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

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