

Anderman Ceramics EZY 88 Zirconia, 88%, Fully Yttria-Stabilized

Category : Ceramic , Oxide , Zirconium 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-EZY-88-Zirconia-88-Fully-Yttria-Stabilized.php

Physical Properties	Metric	English	Comments
Density	5.85 g/cc	0.211 lb/in ³	
Open Porosity	0.00 %	0.00 %	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	8.0	8.0	
Flexural Strength	207 MPa	30000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	10.5 $\mu\text{m}/\text{m}\cdot\text{°C}$	5.83 $\mu\text{in}/\text{in}\cdot\text{°F}$	
Thermal Conductivity	2.50 W/m-K @Temperature 20.0 - 100 °C	17.4 BTU-in/hr-ft ² -°F @Temperature 68.0 - 212 °F	
Maximum Service Temperature, Air	1800 °C	3270 °F	

Component Elements Properties	Metric	English	Comments
Y2O3	12 %	12 %	
ZrO2	88 %	88 %	

Electrical Properties	Metric	English	Comments
Volume Resistivity	10000 ohm-cm @Temperature 600 °C	10000 ohm-cm @Temperature 1110 °F	
	1.00e+13 ohm-cm @Temperature 20.0 °C	1.00e+13 ohm-cm @Temperature 68.0 °F	

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