

CeramTec 965 Toughened Alumina (Al₂O₃-ZrO₂)

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Hasselman Thermal Shock value is 270 K.Data provided by CeramTec North America.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CeramTec-965-Toughened-Alumina-Al2O3-ZrO2.php

Physical Properties	Metric	English	Comments
Density	4.20 g/cc	0.152 lb/in ³	
Water Absorption	0.00 %	0.00 %	

Mechanical Properties	Metric	English	Comments
Vickers Microhardness	1450	1450	HV 0.5
Tensile Strength, Ultimate	448 MPa	65000 psi	ACMA Test #4
Modulus of Elasticity	344 GPa	49900 ksi	Ultrasonic
Flexural Strength	550 MPa	79800 psi	20 x 40 mm
Compressive Strength	3586 MPa	520100 psi	ASTM C773-88
Poissons Ratio	0.26	0.26	ASTM C-1 259-94
Fracture Toughness	7.20 MPa-m ^{1/2}	6.55 ksi-in ^{1/2}	
Shear Modulus	139 GPa	20200 ksi	Ultrasonic

Thermal Properties	Metric	English	Comments
CTE, linear	8.00 µm/m-°C	4.44 µin/in-°F	
	@Temperature 25.0 - 1001 °C	@Temperature 77.0 - 1834 °F	
Specific Heat Capacity	0.700 J/g-°C	0.167 BTU/lb-°F	
Thermal Conductivity	21.0 W/m-K	146 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	1400 °C	2550 °F	

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