



RocCera Alumina Toughened Zirconia

Typical Properties:

Chemical Composition		85% zirconia, 15% alumina
Crystal Structure		Tetragonal, alpha, monoclinic
Density	gram/cc	5.7
Color		White
Young's Modulus @ RT	psi	36 million
	GPa	248
Flexural Strength @ RT	psi	120,000
	MPa	812
Fracture Toughness	MPa√m	6
Vicker's Hardness	500 g Load	1500 VHN
Weibull Modulus		8
Thermal Conductivity (RT)	cal/cm.sec.°C	0.012
Coeff. Of Linear Thermal Expansion (40 - 400 °C)		8 x 10 ⁻⁶ /°C

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