



RocCera Zirconia Toughened Alumina

Typical Properties:

Chemical Composition		80% alumina, 20% zirconia
Crystal Structure		Tetragonal, alpha, monoclinic
Density	gram/cc	4.3
Color		White
Young's Modulus @ RT	psi	49 million
	GPa	338
Flexural Strength @ RT	psi	870,000
	MPa	600
Fracture Toughness	MPa√m	6
Vicker's Hardness	500 g Load	1500 VHN
Weibull Modulus		8
Thermal Conductivity (RT)	cal/cm.sec.°C	0.025
Coeff. Of Linear Thermal Expansion (40 - 400 °C)		$5 \times 10^{-6}/^{\circ}\text{C}$

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