

## Zirconia Toughened Alumina

### Typical Properties

	(Units)	<b><u>ZTA75</u></b>	<b><u>ZTA85</u></b>
Density	(g/cc)	4.24	4.17
Color		white	white
Grain Size, average	(um)	1 – 2	1 - 2
Thermal Conductivity	(W/m-K)	20	24
Thermal Expansion	(10exp-6/C)	8.1	8.1
Bending Strength	(MPa)	650	590
Young's Modulus	(GPa)	340	340
Hardness	(GPa)	17	17
Fracture Toughness	(MPa-m <sup>1/2</sup> )	7	6.5
Maximum use temperature	(C)	1500	1500