

Properties	Condition	Units	99.5 - 99.7% Al ₂ O ₃
Density		gm/cc	≥3.8
Water Absorption		%	0
Color			Ivory
Flexural Strength (MOR)	20°C	MPa	379(55)
Elastic Modulus	20°C	GPa	303(54)
Poisson's Ratio	20°C		0.22
Compressive Strength	20°C		2600(377)
Hardness		Gpa(kg/m M ² R45N)	$\frac{14.1(1440)}{83}$
Tensile Strength	25°C	MPa	262(38)
Fracture Toughness	K(Ic)	MPam ^{1/2}	4~5
Coefficient of Thermal Expansion	25-1000°C	1x10 ⁻⁶ /°C	8.2
Specific Heat	100°C	J/kg*K	880
Thermal Shock Resistance	ΔTc	°C	200
Maximum Use Temperature		°C	1500
Dielectric Strength		ac-Ky/mm	8.7(220)
Dielectric Loss	1MHz	25°C	0.0001
Volume Resistivity	25°C	ohm-cm	>10 ¹⁴