

Zirconia Ceramic Material Properties - SU0983

Properties	Unit	Value
Color	-	White
Density	g/cm ³	6-6.05
HV Hardness	GPa	1250
Toughness	MN/m	7.0
Bending Strength	kgf/cm ²	100-120
Heat Impact	ΔT,°C	280
Coefficient of Thermal Expansion	×10 ⁻⁶ /°C	9.0
Max Usage Temperature	°C	400
Corrosion Resistance (Acid & Alkali)	-	Good
Thermal Conductivity	W/(m·K)	3.0
Magnetism	-	Non
Insulation	-	Insulator
Indentation Strength	MPa	2000
Fracture Toughness	MPa·√m	11
Weber Modulus	GPa	>15
Modulus of elasticity	GPa	210
Poisson Ratio		0.3
Resistivity	Ω·m	>10 ¹⁰
Specific Heat	J/(kg·K)	400
Dimensional Stability		good

Remark: The value is just for review. Different working conditions may cause some difference.