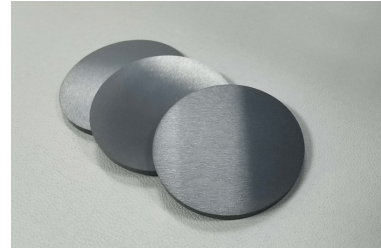


Technical Data Sheet

Product Name: Silicon Nitride Disc
Catalog No.: SC3989
Density: 3.22 g/cm³
Shape: Disc
Purity: 95%~99%



Properties

Item	Unit	Typical Values
Density	g/cm ³	3.22
Physical Properties		
Hardness	-	HRA90
Vickers Hardness (Hv50)	HV0.5	>1550
Modulus of Elasticity	Gpa	290
Flexural Strength	MPa	>600
Compressive Strength	MPa	2500
Fracture Toughness, K _{Ic}	MPa·m ^{1/2}	>6.0
The Thermodynamic Property		
Max. Use Temperature	°C	1200
Thermal Conductivity	W/m·k	15-20
Thermal Expansion Coefficient	10 ⁻⁶ / °C	>3.1
Thermal Shock Resistance	ΔT °C	500
Specific Heat Capacity	KJ/kg·k	700
Electrical Property		
Volume Resistivity at 20 °C	Ω·cm	1.0x10 ¹²

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