

Technical Data Sheet

Product Name: Aluminum Nitride Disc
Catalog No.: SN3996
Density: 3.32 g/cm³
Shape: Disc
Purity: 95%~99%



Properties

Properties	Unit	Value
Purity	wt%	95%AlN+%Y2O3
Density	g/cm ³	3.32
Bending Strength	Mpa	410
Young's Modulus	Gpa	>320
Hardness HV1	-	1000
Maximum Service Temperature in Air	°C	800
Linear Coefficient of Expansion 40 - 400°C	10 ⁻⁶ / K	4.6
Linear Coefficient of Expansion 40 - 800°C	10 ⁻⁶ / K	5.3
Specific Heat	J / (kg.K)	740
Thermal Conductivity 100°C	W/m.k	170
Resistivity 20°C	Ωx cm	1x10 ¹⁴
Resistivity 300°C	Ωx cm	1x10 ¹²
Resistivity 500°C	Ωx cm	1x10 ¹⁰
Volume Resistivity	Ohm.cm	1x10 ¹⁴
Dielectric Strength	KV/mm	>15
Dielectric Constant	1 MHz	>8.6

Stanford Advanced Materials

By..... *W. J. ...*