

Aluminum nitride	AlN120	AlN140	AlN160	AlN180
Color	Dark Gray	Dark Gray	Translucent Medium gray	Translucent Medium gray
Surface roughness, Ra (μm)	0.6max	0.6max	0.5max	0.5max
Density (g/cm ³)	3.25	3.26	3.33	3.33
Flexural strength (MPa)	>320	>300	>300	>300
Compressive Strength (GPa)	2.1	2.1	2.0	2.0
Fracture toughness (MPa m ^{1/2})	3.30±0.05	3.30±0.05	3.35±0.05	3.35±0.05
Young's modulus (GPa)	300	300	310	310
Thermal conductivity (W/mK)	120±10%	140±10%	160±10	180±10
Coeff.of thermalexpansion (10 ⁻⁶ K ⁻¹)RT- 100°C	3.6	3.6	3.6	3.6
Volume resistivity (Ωcm)	>10 ¹²	>10 ¹²	>10 ¹³	>10 ¹³
Dielectric strength (KV/mm)	≥18	≥18	≥20	≥20
Dielectric constant (@1MHz)	9.0±10%	9.0±10%	9.0±10%	9.0±10%
Melting point	2500°C	2500°C	2500°C	2500°C