

Product	BN99 boron nitride	
Appearance	White	
Boron Nitride Content	>99%	
Crystalline	hexagonal	
Mechanical Properties	//	⊥
Bending Strength MPa	35	28
Compressive Strength MPa	85	72
Young Modulus GPa	21	70
Density	2.0 g/cm ³	
Porosity	6.8%	
Hardness ~Knoop	11 kg/mm ²	
Thermal Conductivity	40 W/mK	
Thermal Expansion RT	1.4 10 ⁻⁶ /K	0.7 10 ⁻⁶ /K
Thermal Expansion 1000~1600K	0.9 10 ⁻⁶ /K	0.6 10 ⁻⁶ /K
Thermal Expansion 1600~1900K	0.7 10 ⁻⁶ /K	0.7 10 ⁻⁶ /K
Dielectric Constant	4.0	
Dielectric Strength	79KV/mm	
Electrical Resistance RT	>10 ¹⁴ ohm cm	
Chemical Composition	Na ₂ O 0.08% Al ₂ O ₃ 0.04% SiO ₂ 0.03% CaO 0.48% BN 99.3%	