

Product	TPBN boron nitride	
Appearance	White	
Boron Nitride Content	>99.5% (O<0.2%)	
Crystalline	hexagonal	
Mechanical Properties	//	⊥
Bending Strength MPa	19	17
Compressive Strength MPa	49	42
Young Modulus GPa	20	55
Density	1.6 g/cm ³	
Porosity	~25%	
Hardness ~Knoop	11 kg/mm ²	
Thermal Conductivity	30 W/mK	
Thermal Expansion RT	1.3 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	