

General Properties

Crystalline Phase	Hexagonal BN 99%
Binder Phase / Binder Type	Boric Oxide
Colour	White
Typical Applications	High Temperature and Purity. Dielectric Strength, Low Expansion, High Thermal Conductivity
Directionality	Parallel / Perpendicular

Mechanical Properties

Flexural Strength	14 / 30
Young Modulus	N/A
RT Compression	N/A
Open Porosity	15
Density (g/cc mm²)	1.9
Hardness-Knoop (KG/mm²)	5

Thermal Properties

Thermal Conductivity @25°C W/mK	21
Coefficient Thermal Expansion (10⁻⁶)	25 – 400°C N/A 400 – 800°C N/A 800 – 1200°C 5.5 / 1 1200 – 1600°C N/A 1600 – 1900°C N/A
Specific Heat @ 25°C J/gK	N/A
Max Temperature @ Oxidising / Inert	850°C / 1900°C

Electrical Properties

Dielectric Constant @ 1 MHz	N/A
Dissipation Factor @ 1 MHz	N/A
Dielectric Strength	>70
RT Resistivity (Ohm cm)	>10 ¹³ >10 ¹³