

General Properties

Crystalline Phase	Hexagonal BN
Binder Phase / Binder Type	Boric Oxide
Colour	White
Typical Applications	GENERAL PURPOSE
Directionality	Parallel / Perpendicular

Mechanical Properties

Flexural Strength	94 / 65
Young Modulus	47 / 74
RT Compression	143 / 186
Open Porosity	2.84
Density (g/cc mm²)	2
Hardness-Knoop (KG/mm²)	20

Thermal Properties

Thermal Conductivity @25°C W/mK	30 / 34
Coefficient Thermal Expansion (10⁻⁶)	25 – 400°C 3 / 3 400 – 800°C 2 / 1.4 800 – 1200°C 1.9 / 1.8 1200 – 1600°C 5 / 4.8 1600 – 1900°C 7.2 / 6.1
Specific Heat @ 25°C J/gK	8.60E-01
Max Temperature @ Oxidising / Inert	850°C / 1200°C

Electrical Properties

Dielectric Constant @ 1 MHz	4.6 / 4.2
Dissipation Factor @ 1 MHz	1.2-03 / 3.4E
Dielectric Strength	88
RT Resistivity (Ohm cm)	>10 ¹² >10 ¹⁴