

General Properties

Crystalline Phase	N/A
Binder Phase / Binder Type	CVD Process
Colour	Cream
Typical Applications	Demanding applications when the very best purity, temperature is required such as MBE
Directionality	A & C direction

Mechanical Properties

Flexural Strength	27500 PSI
Young Modulus	N/A
RT Compression	37000 A direction 48,000 C direction Units PSI
Open Porosity	0
Density (g/cc mm ²)	1.95 – 2.19
Hardness-Knoop (KG/mm ²)	N/A

Thermal Properties

Thermal Conductivity @25°C W/mK	0.25 "A" / 0.004 "C"
Coefficient Thermal Expansion (10 ⁻⁶)	25 – 400°C N/A 400 – 800°C 0.001 "A" / 0.013 "C" 800 – 1200°C N/A 1200 – 1600°C 0.0025 "A" / 0.27 "C" 1600 – 1900°C N/A
Specific Heat @ 25°C J/gK	0.2 cal/g* °C
Max Temperature @ Oxidising / Inert	1000 / 1900°C +

Thermal Properties

Dielectric Constant @ 1 MHz	"C" 3.7
Dissipation Factor @ 1 MHz	N/A
Dielectric Strength	"C" 230
RT Resistivity (Ohm cm)	1 x 10 ¹⁵