

### General Properties

<b>Crystalline Phase</b>	BN-60% SiO <sub>2</sub> -40%
<b>Binder Phase / Binder Type</b>	SiO <sub>2</sub>
<b>Colour</b>	White
<b>Typical Applications</b>	Extreme Corrosion Resistance, Moisture Resistance, Dielectric Strength
<b>Directionality</b>	Parallel / Perpendicular

### Mechanical Properties

<b>Flexural Strength</b>	62 / 34
<b>Young Modulus</b>	N/A
<b>RT Compression</b>	N/A
<b>Open Porosity</b>	6.7
<b>Density (g/cc mm<sup>2</sup>)</b>	2.1
<b>Hardness-Knoop (KG/mm<sup>2</sup>)</b>	N/A

### Thermal Properties

<b>Thermal Conductivity @25°C W/mK</b>	12-29
<b>Coefficient Thermal Expansion (10<sup>-6</sup>)</b>	25 – 400°C 3.0 / 0.4 400 – 800°C 2.5 / 0.1 800 – 1200°C 3.0 / 0.1 1200 – 1600°C N/A 1600 – 1900°C N/A
<b>Specific Heat @ 25°C J/gK</b>	0.77
<b>Max Temperature @ Oxidising / Inert</b>	1000°C +

### Electrical Properties

<b>Dielectric Constant @ 1 MHz</b>	4.5 / 3.8
<b>Dissipation Factor @ 1 MHz</b>	1.7E-03 / 6.7E-03
<b>Dielectric Strength</b>	66
<b>RT Resistivity (Ohm cm)</b>	>10 <sup>13</sup> >10 <sup>14</sup>