

**General Properties**

<b>Crystalline Phase</b>	Hexagonal BN >99%
<b>Binder Phase / Binder Type</b>	Self Bonded
<b>Colour</b>	White
<b>Typical Applications</b>	Extreme Corrosion Resistance, High Purity Temperature, Thermal Conductivity
<b>Directionality</b>	Parallel / Perpendicular

**Mechanical Properties**

<b>Flexural Strength</b>	22 / 21
<b>Young Modulus</b>	17 / 71
<b>RT Compression</b>	25
<b>Open Porosity</b>	19.3
<b>Density (g/cc mm<sup>2</sup>)</b>	1.9
<b>Hardness-Knoop (KG/mm<sup>2</sup>)</b>	4

**Thermal Properties**

<b>Thermal Conductivity @25°C W/mK</b>	78 / 130
<b>Coefficient Thermal Expansion (10<sup>-6</sup>)</b>	25 – 400°C -2.3 / -0.7 400 – 800°C -2.5 / 1.1 800 – 1200°C 1.6 / 0.4 1200 – 1600°C 0.9 / 0.3 1600 – 1900°C 0.5 / 0.9
<b>Specific Heat @ 25°C J/gK</b>	0.81
<b>Max Temperature @ Oxidising / Inert</b>	850°C / 2000°C

**Thermal Properties**

<b>Dielectric Constant @ 1 MHz</b>	4/4
<b>Dissipation Factor @ 1 MHz</b>	1.2E-03 / 3.0E-03
<b>Dielectric Strength</b>	>79
<b>RT Resistivity (Ohm cm)</b>	>10 <sup>13</sup> >10 <sup>14</sup>