

Pyrolytic Boron Nitride Sheet

Grade: Pyrolytic

Formula: BN

Thickness: 1mm

Length 1: 25mm

Length 2: 25mm

CAS Number: 10043-11-5

UOM Code: 578-641-89

SKU: 1000035273-group

Product Code: B-60-SH-000120

Material Properties for Ceramics

Chemical Resistance

Element	Value
Acids - concentrated	Fair
Acids - dilute	Fair
Alkalis	Fair
Halogens	Poor
Metals	Good

Electrical Properties

Element	Value
Dielectric constant	4.3
Dielectric strength(kV mm ⁻¹)	40-200
Volume resistivity(Ohmcm)	10 ¹¹ -10 ¹⁷ @25

Physical Properties

Element	Value
Apparent porosity(%)	Feb-15
Density(gcm ⁻³)	1.9-2.2

Thermal Properties

Element	Value
Sublimation point(C)	2600-2800
Upper continuous use temperature(C)	950-2500
Specific heat(J K ⁻¹ kg ⁻¹)	800-2000@25°C
Thermal conductivity(W m ⁻¹ K ⁻¹)	15-50@20°C
Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹)	1-36@20-1000°C

Mechanical Properties

Element	Value
Tensile modulus(GPa)	20-35
Shear strength(MPa)	Dec-25

Pultrusions

Element	Value
Compressive strength(MPa)	30-120