

Beryllium Oxide Sheet

Formula: BeO 99.5

Thickness: 1mm

Length 1: 12mm

Length 2: 12mm

CAS Number: 1304-56-9

UOM Code: 637-913-65

SKU: 1000035804-group

Product Code: BE60-SH-000100

Material Properties for Ceramics

Chemical Resistance

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

Electrical Properties

Element	Value
Dielectric constant	6.5-7.5
Dielectric strength(kV mm ¹)	Oct-14
Volume resistivity(Ohmcm)	>10 ¹⁷ @25

Physical Properties

Element	Value
Apparent porosity(%)	0
Water absorption - saturation(%)	0.07
Density(gcm ³)	2.86

Thermal Properties

Element	Value
Upper continuous use temperature(C)	1800-1900
Specific heat(J K ⁻¹ kg ⁻¹)	1020-1120@25°C
Thermal conductivity(W m ⁻¹ K ⁻¹)	260-300@20°C
Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹)	8.4-9@20-1000°C

Mechanical Properties

Element	Value
Tensile modulus(GPa)	340-400
Hardness - Vickers(kgf mm ⁻²)	1100-1300
Shear strength(MPa)	180-250

Pultrusions

Element	Value
Compressive strength(MPa)	1550-1850