

MACOR® Machinable Glass Ceramic Bar

Formula: SiO₂ 46/Al₂O₃ 16/MgO 17/K₂O 10/B₂O₃ 7

Side Length: 35mm

Side Length (Of Longer Side): 55mm

Length: 65mm

UOM Code: 092-187-07

SKU: 1000013022-group

Product Code: MA80-BR-000130

Material Properties for Glasses

Chemical Resistance

Element	Value
Acids - concentrated	Poor
Acids - dilute	Fair
Alkalis	Fair
Halogens	0
Metals	0

Electrical Properties

Element	Value
Dielectric constant	0
Dielectric strength(kV mm ⁻¹)	0
Volume resistivity(Ohmcm)	>10 ¹² @25

Mechanical Properties

Element	Value
Poisson's ratio	0
Tensile modulus(GPa)	67
Hardness - Knoop(kgf mm ⁻²)	0
Hardness - Vickers(kgf mm ⁻²)	400
Shear strength(MPa)	0
Tensile strength(MPa)	0
Fracture toughness(MPam ^{0.5})	0

Physical Properties

Element	Value
Refractive index	0
Useful optical transmission range	0
Apparent porosity(%)	0
Water absorption - saturation(%)	0
Density(gcm ³)	2.52

Thermal Properties

Element	Value
Melting point(C)	0
Sublimation point(C)	0
Upper continuous use temperature(C)	800-1000
Specific heat(J K ⁻¹ kg ⁻¹)	790@25°C
Thermal conductivity(W m ⁻¹ K ⁻¹)	1.5@20°C
Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹)	13@20-1000°C

Pultrusions

Element	Value
Compressive strength(MPa)	345