

Beryllia (BeO)

Features

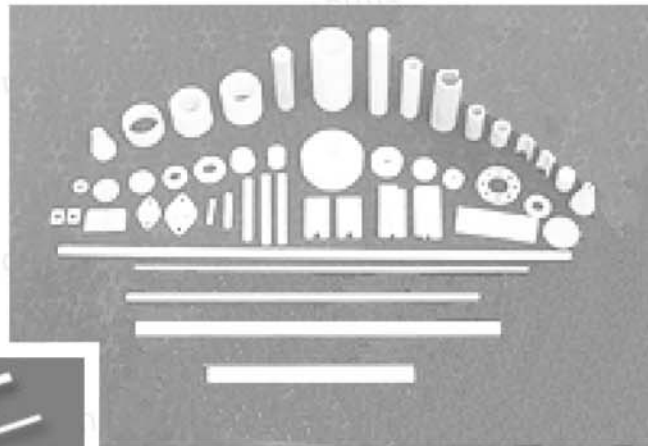
- High Thermal Conductivity
- Low Dielectric Constant
- Low Dielectric Loss

Applications

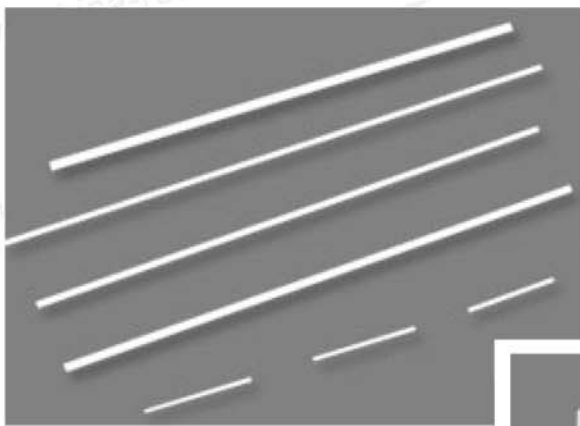
- Heat Emission for Power Semiconductor Devices and IC
- Tubes and Rods
- Bars, Plate and Blocks

Characteristics of Material

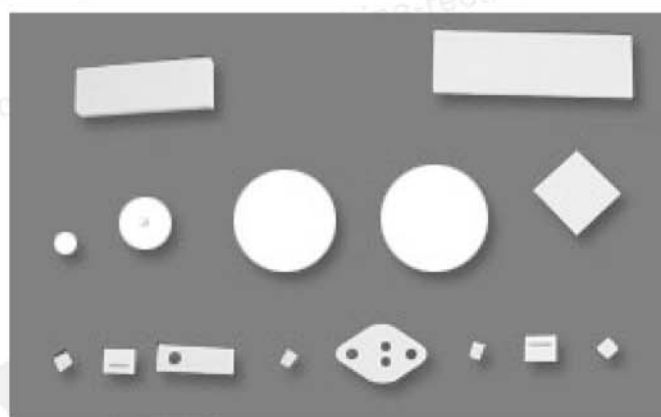
Item	Unit	Value
Bulk Density	g/cm ³	2.9
Mohs Hardness		8
Thermal Expansion Coefficient	10 ⁻⁶ /°C	7~8.5
Modulus of Elasticity	GPa	345
Flexural Strength	MPa	205
Tensile Strength	MPa	125
Compressive Strength	MPa	1550
Dielectric Constant (at 1MHz)		6.7
Dielectric Loss Angle (at 1 MHz)	× 10 ⁻⁴	5
Dielectric Strength	kV/mm	10~14
Thermal Conductivity (at 25°C)	W/mK	250
Volume Resistivity (at 25°C)	Ω cm	>10 ¹⁴



Bars, plates, blocks



Pipes, rods



Plats, discs