

GBC L3 Steatite

Category : Ceramic , Oxide , Magnesium Oxide , Silicon Oxide

Material Notes:

Ideal for high frequency, low loss, high voltage insulation. Much less expensive than alumina insulators
 Applications: resistor forms, surge arrestors, standoffs, spacers, and coil forms.
 Machinability: easily fabricated to close tolerances.

Order this product through the following link:

http://www.lookpolymers.com/polymer_GBC-L3-Steatite.php

Physical Properties	Metric	English	Comments
Density	2.50 g/cc	0.0903 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	59.0 MPa	8560 psi	
Flexural Strength	120 MPa	17400 psi	
Compressive Strength	600 MPa	87000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	8.00 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	4.44 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	3.00 W/m-K	20.8 BTU-in/hr-ft ² - $\text{Å}^\circ\text{F}$	
Maximum Service Temperature, Air	1000 $\text{Å}^\circ\text{C}$	1830 $\text{Å}^\circ\text{F}$	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	2.10e+12 ohm-cm	2.10e+12 ohm-cm	
Dielectric Constant	5.9	5.9	
Dielectric Strength	8.86 kV/mm	225 kV/in	
Dissipation Factor	0.0035	0.0035	
Dielectric Loss Index	0.016	0.016	at 100 MHz

Descriptive Properties	Value	Comments
Color	Off White	

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