

GBC Grade 90 Alumina

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Data provided by the manufacturer, GBC Materials Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_GBC-Grade-90-Alumina.php

Physical Properties	Metric	English	Comments
Density	3.64 g/cc	0.132 lb/in ³	
Open Porosity	0.00 %	0.00 %	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	9.0	9.0	
Tensile Strength, Ultimate	180 MPa	26100 psi	
Flexural Strength	360 MPa	52200 psi	
Compressive Strength	1800 MPa	261000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	7.00 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	3.89 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Maximum Service Temperature, Air	1400 $\text{Å}^\circ\text{C}$	2550 $\text{Å}^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	90 %	90 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	5.00e+10 ohm-cm	5.00e+10 ohm-cm	
Dielectric Constant	8.1	8.1	
Dissipation Factor	0.00040	0.00040	
Dielectric Loss Index	0.0040	0.0040	

Descriptive Properties	Value	Comments
Color	Black	

Descriptive Properties	Value	Comments
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