

GBC Grade 92 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-92-Alumina.php

Physical Properties	Metric	English	Comments
Density	3.65 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	190 MPa	27600 psi	
Flexural Strength	380 MPa	55100 psi	
Compressive Strength	1900 MPa	276000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	7.10 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	3.94 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Maximum Service Temperature, Air	1500 $\text{Å}^\circ\text{C}$	2730 $\text{Å}^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	92 %	92 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	
Dielectric Constant	8.6	8.6	
Dissipation Factor	0.00030	0.00030	
Dielectric Loss Index	0.0030	0.0030	

Descriptive Properties	Value	Comments
Color	White	

Descriptive Properties	Value	Comments
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