

GBC Grade 97 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-97-Alumina.php

Physical Properties	Metric	English	Comments
Density	3.72 g/cc	0.134 lb/in ³	
Open Porosity	0.00 %	0.00 %	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	9.0	9.0	
Tensile Strength, Ultimate	210 MPa	30500 psi	
Flexural Strength	380 MPa	55100 psi	
Compressive Strength	2000 MPa	290000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	7.60 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.22 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Maximum Service Temperature, Air	1650 $\text{Å}^\circ\text{C}$	3000 $\text{Å}^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	97 %	97 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	3.10e+12 ohm-cm	3.10e+12 ohm-cm	
Dielectric Constant	9.4	9.4	
Dissipation Factor	0.00020	0.00020	
Dielectric Loss Index	0.013	0.013	

Descriptive Properties	Value	Comments
Color	White	

Descriptive Properties	Value	Comments
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