

## GBC Grade 99 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-99-Alumina.php](http://www.lookpolymers.com/polymer_GBC-Grade-99-Alumina.php)

Physical Properties	Metric	English	Comments
Density	3.85 g/cc	0.139 lb/in <sup>3</sup>	
Open Porosity	0.00 %	0.00 %	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	9.0	9.0	
Tensile Strength, Ultimate	220 MPa	31900 psi	
Flexural Strength	410 MPa	59500 psi	
Compressive Strength	2300 MPa	334000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	7.80 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.33 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Maximum Service Temperature, Air	1700 $\text{Å}^\circ\text{C}$	3090 $\text{Å}^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Al <sub>2</sub> O <sub>3</sub>	99 %	99 %	

Electrical Properties	Metric	English	Comments
Dielectric Constant	9.7	9.7	
Dissipation Factor	0.00010	0.00010	
Dielectric Loss Index	0.0090	0.0090	

Descriptive Properties	Value	Comments
Color	White	

## **Contact Songhan Plastic Technology Co.,Ltd.**

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