

## GBC Grade 85 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-85-Alumina.php](http://www.lookpolymers.com/polymer_GBC-Grade-85-Alumina.php)

Physical Properties	Metric	English	Comments
Density	3.40 g/cc	0.123 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	120 MPa	17400 psi	
Flexural Strength	310 MPa	45000 psi	
Compressive Strength	1700 MPa	247000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	6.70 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	3.72 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Maximum Service Temperature, Air	1350 $\text{Å}^\circ\text{C}$	2460 $\text{Å}^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Al <sub>2</sub> O <sub>3</sub>	85 %	85 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	2.00e+10 ohm-cm	2.00e+10 ohm-cm	
Dielectric Constant	7.6	7.6	
Dissipation Factor	0.00060	0.00060	
Dielectric Loss Index	0.0060	0.0060	

Descriptive Properties	Value	Comments
Color	White	

Descriptive Properties	Value	Comments
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## Contact Songhan Plastic Technology Co.,Ltd.

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