

GBC 496 Alumino Silicate Ceramic

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Propriety composition with CTE equivalent to Pyrex® glass. Can seal directly to 7070 glass, Pyrex®, or other grades of silicon. Has excellent thermal shock resistance, low firing temperature, and low shrinkage compared with similar ceramics.Applications: 496 is a fine-grained spray-dried powder that can be pressed into intricate shapes.Machinability lower tool wear than comparable ceramics resulting in lower production costs.

Order this product through the following link:
http://www.lookpolymers.com/polymer_GBC-496-Alumino-Silicate-Ceramic.php

Physical Properties	Metric	English	Comments
Density	2.50 g/cc	0.0903 lb/in³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	83.0 MPa	12000 psi	
Flexural Strength	100 MPa	14500 psi	
Compressive Strength	650 MPa	94300 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	3.20 µm/m-°C @Temperature 20.0 °C	1.78 µin/in-°F @Temperature 68.0 °F	
Thermal Conductivity	2.00 W/m-K	13.9 BTU-in/hr-ft²-°F	
Maximum Service Temperature, Air	1040 °C	1900 °F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	
Dielectric Constant	5.6	5.6	
Dielectric Strength	8.64 kV/mm	219 kV/in	
Dissipation Factor	0.0050	0.0050	
Dielectric Loss Index	0.030	0.030	at 100 MHz

Descriptive Properties	Value	Comments
Color		

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

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