

Anderman Ceramics EA998 Sintered Alumina, 99.8%

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

High purity fully dense alumina (99.8%) with high temperature capability of 1750°C. Available in rod, tube, plate, crucibles, sheaths and insulators up to 10 ft (3 m) long with diameters 0.3" to 16". Information provided by Anderman Ceramics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Anderman-Ceramics-EA998-Sintered-Alumina-998.php

Physical Properties	Metric	English	Comments
Density	3.92 g/cc	0.142 lb/in ³	
Open Porosity	0.00 %	0.00 %	Gas Tight

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	9.0	9.0	
Tensile Strength	172 MPa	25000 psi	
Flexural Strength	320 MPa	46400 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	8.60 $\mu\text{m}/\text{m}\cdot\text{°C}$	4.78 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	8.00 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 - 1000 °C	4.44 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 - 1830 °F	
Thermal Conductivity	27.0 W/m-K	187 BTU-in/hr-ft ² -°F	
	@Temperature 20.0 - 100 °C	@Temperature 68.0 - 212 °F	
Maximum Service Temperature, Air	1750 °C	3180 °F	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	99.8 %	99.8 %	
B ₂ O ₃	<= 0.020 %	<= 0.020 %	
CaO	0.030 %	0.030 %	
Fe ₂ O ₃	0.020 %	0.020 %	
MgO	0.030 %	0.030 %	

Na ₂ O Component Elements Properties	0.15 % Metric	0.15 % English	Comments
SiO ₂	0.050 %	0.050 %	
TiO ₂	<= 0.010 %	<= 0.010 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	
	1.00e+8 ohm-cm	1.00e+8 ohm-cm	
	@Temperature 600 °C	@Temperature 1110 °F	
Dielectric Constant	9.8	9.8	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Descriptive Properties	Value	Comments
Thermal Shock Resistance	Good	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China