

Anderman Ceramics EA96 Sintered Alumina, 96%

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

High strength alumina (96%) available pink or white. Available in many shapes and sizes. Information provided by Anderman Ceramics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Anderman-Ceramics-EA96-Sintered-Alumina-96.php

Physical Properties	Metric	English	Comments
Density	3.65 g/cc	0.132 lb/in ³	
Open Porosity	0.00 %	0.00 %	Gas Tight

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	9.0	9.0	
Tensile Strength	131 MPa	19000 psi	
Flexural Strength	310 MPa	45000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	7.50 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	4.17 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 - 1000 $^\circ\text{C}$	@Temperature 68.0 - 1830 $^\circ\text{F}$	
Thermal Conductivity	23.0 W/m-K	160 BTU-in/hr-ft ² - $^\circ\text{F}$	
	@Temperature 20.0 - 100 $^\circ\text{C}$	@Temperature 68.0 - 212 $^\circ\text{F}$	
Maximum Service Temperature, Air	1600 $^\circ\text{C}$	2910 $^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Al2O3	96 %	96 %	
B2O3	<= 0.010 %	<= 0.010 %	
CaO	0.020 %	0.020 %	
Fe2O3	0.010 %	0.010 %	
MgO	0.020 %	0.020 %	
Na2O	0.14 %	0.14 %	
SiO2	3.6 %	3.6 %	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+6 ohm-cm	1.00e+6 ohm-cm	
	@Temperature 600 °C	@Temperature 1110 °F	
	1.00e+14 ohm-cm	1.00e+14 ohm-cm	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Dielectric Constant	9.3	9.3	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Descriptive Properties	Value	Comments
Thermal Shock Resistance	Medium	

Contact Songhan Plastic Technology Co.,Ltd.

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