

Anderman Ceramics EA95 Sintered Alumina, 95%

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Densely sintered alumina is characterized by: high strength and hardness, temperature stability, electrical insulation, and high wear resistance and corrosion resistance even at high temperatures. Available in many shapes and sizes.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Anderman-Ceramics-EA95-Sintered-Alumina-95.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	9.0	9.0	
Tensile Strength	138 MPa	20000 psi	
Flexural Strength	283 MPa	41000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	8.70 $\mu\text{m}/\text{m}\cdot\text{°C}$	4.83 $\mu\text{in}/\text{in}\cdot\text{°F}$	
Thermal Conductivity	22.0 W/m-K @Temperature 20.0 - 100 °C	153 BTU-in/hr-ft ² -°F @Temperature 68.0 - 212 °F	
Maximum Service Temperature, Air	1650 °C	3000 °F	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	95 %	95 %	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+6 ohm-cm @Temperature 600 °C	1.00e+6 ohm-cm @Temperature 1110 °F	
	1.00e+14 ohm-cm @Temperature 20.0 °C	1.00e+14 ohm-cm @Temperature 68.0 °F	
Dielectric Constant	9.2 @Frequency 1.00e+6	9.2 @Frequency 1.00e+6	

Electrical Properties

Hz
Metric

Hz
English

Comments

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