

Sapco 95% Aluminum Oxide

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Information provided by Sapco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sapco-95-Aluminum-Oxide.php

Physical Properties	Metric	English	Comments
Density	3.70 g/cc	0.134 lb/in ³	
Open Porosity	0.00 %	0.00 %	
Weibull Modulus	>= 10	>= 10	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	9.0	9.0	
Tensile Strength, Ultimate	170 MPa	24700 psi	
Modulus of Elasticity	350 GPa	50800 ksi	
Flexural Strength	300 MPa	43500 psi	
Compressive Strength	2400 MPa	348000 psi	
Poissons Ratio	0.22	0.22	
Shear Modulus	143 GPa	20700 ksi	Calculated

Thermal Properties	Metric	English	Comments
CTE, linear	7.60 Åµm/m-Å°C @Temperature 20.0 Å°C	4.22 Åµin/in-Å°F @Temperature 68.0 Å°F	
Specific Heat Capacity	0.880 J/g-Å°C	0.210 BTU/lb-Å°F	
Thermal Conductivity	20.0 W/m-K	139 BTU-in/hr-ftÅ²-Å°F	
Maximum Service Temperature, Air	1500 Å°C	2730 Å°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	
Dielectric Constant	9.1	9.1	

Electrical Properties	@Frequency 1e+6 Hz Metric	@Frequency 1e+6 Hz English	Comments
Dielectric Strength	18.0 kV/mm	457 kV/in	AC
Dissipation Factor	0.00030 @Frequency 1e+6 Hz	0.00030 @Frequency 1e+6 Hz	
Dielectric Loss Index	0.0027	0.0027	

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