

## Sapco 99.7% 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-997-Aluminum-Oxide.php](http://www.lookpolymers.com/polymer_Sapco-997-Aluminum-Oxide.php)

Physical Properties	Metric	English	Comments
Density	3.93 g/cc	0.142 lb/in <sup>3</sup>	
Open Porosity	0.00 %	0.00 %	
Weibull Modulus	>= 10	>= 10	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	9.0	9.0	
Tensile Strength, Ultimate	280 MPa	40600 psi	
Modulus of Elasticity	380 GPa	55100 ksi	
Flexural Strength	500 MPa	72500 psi	
Compressive Strength	3200 MPa	464000 psi	
Poissons Ratio	0.22	0.22	
Shear Modulus	156 GPa	22600 ksi	Calculated

Thermal Properties	Metric	English	Comments
CTE, linear	8.90 $\mu\text{m/m-}\text{^\circ C}$	4.94 $\mu\text{in/in-}\text{^\circ F}$	
	@Temperature 20.0 $\text{^\circ C}$	@Temperature 68.0 $\text{^\circ F}$	
Specific Heat Capacity	0.800 J/g- $\text{^\circ C}$	0.191 BTU/lb- $\text{^\circ F}$	
Thermal Conductivity	30.0 W/m-K	208 BTU-in/hr-ft <sup>2</sup> - $\text{^\circ F}$	
Maximum Service Temperature, Air	1800 $\text{^\circ C}$	3270 $\text{^\circ F}$	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	
Dielectric Constant	9.8	9.8	

Electrical Properties	@Frequency 1e+6 Hz Metric	@Frequency 1e+6 Hz English	Comments
Dielectric Strength	30.0 kV/mm	762 kV/in	AC
Dissipation Factor	0.00080 @Frequency 1e+6 Hz	0.00080 @Frequency 1e+6 Hz	
Dielectric Loss Index	0.0080	0.0080	

## Contact Songhan Plastic Technology Co.,Ltd.

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