

Sapco C 221 Steatite

Category : Ceramic , Oxide , Magnesium Oxide , Silicon Oxide

Material Notes:

Information provided by Sapco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sapco-C-221-Steatite.php

Physical Properties	Metric	English	Comments
Density	2.70 g/cc	0.0975 lb/in ³	
Open Porosity	0.00 %	0.00 %	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	7.0	7.0	
Tensile Strength, Ultimate	75.0 MPa	10900 psi	
Modulus of Elasticity	100 GPa	14500 ksi	
Flexural Strength	135 MPa	19600 psi	
Compressive Strength	850 MPa	123000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	7.00 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	3.89 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Specific Heat Capacity	0.900 J/g- $\text{Å}^\circ\text{C}$	0.215 BTU/lb- $\text{Å}^\circ\text{F}$	
Thermal Conductivity	2.60 W/m-K	18.0 BTU-in/hr-ft ² - $\text{Å}^\circ\text{F}$	
Maximum Service Temperature, Air	1200 $\text{Å}^\circ\text{C}$	2190 $\text{Å}^\circ\text{F}$	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	
Dielectric Constant	5.7	5.7	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	16.0 kV/mm	406 kV/in	AC
Dissipation Factor	0.00050	0.00050	

Electrical Properties	@Frequency 1e+6 Hz Metric	@Frequency 1e+6 Hz English	Comments
Dielectric Loss Index	28	28	

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