

ICE Steatite L-4

Category : Ceramic , Oxide , Magnesium Oxide , Silicon Oxide

Material Notes:

Data provided by the manufacturer, International Ceramic Engineering.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ICE-Steatite-L-4.php

Physical Properties	Metric	English	Comments
Water Absorption	0.00 - 0.030 %	0.00 - 0.030 %	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	7.5	7.5	
Tensile Strength, Ultimate	70.0 MPa	10200 psi	
Flexural Strength	100 MPa	14500 psi	
Compressive Strength	550 MPa	79800 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	8.30 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 25.0 - 600 $\text{Å}^\circ\text{C}$	4.61 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 77.0 - 1110 $\text{Å}^\circ\text{F}$	
Maximum Service Temperature, Air	1425 $\text{Å}^\circ\text{C}$	2597 $\text{Å}^\circ\text{F}$	

Electrical Properties	Metric	English	Comments
Dielectric Constant	5.8 @Frequency 1e+6 Hz	5.8 @Frequency 1e+6 Hz	
Dielectric Strength	9.40 kV/mm	239 kV/in	
Dielectric Loss Index	0.014	0.014	1 MHz, 25 $\text{Å}^\circ\text{C}$ (77 $\text{Å}^\circ\text{F}$)

Descriptive Properties	Value	Comments
Color	Cream	

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