

ICE AI203 99.8

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Data provided by the manufacturer, International Ceramic Engineering.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ICE-AI203-998.php

Physical Properties	Metric	English	Comments
Density	3.92 g/cc	0.142 lb/in ³	
Water Absorption	0.00 %	0.00 %	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	9.0	9.0	
Tensile Strength, Ultimate	150 MPa	21800 psi	
Flexural Strength	300 MPa	43500 psi	
Compressive Strength	2400 MPa	348000 psi	
Fracture Toughness	4.50 MPa-m ^{1/2}	4.10 ksi-in ^{1/2}	

Thermal Properties	Metric	English	Comments
CTE, linear	7.40 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.11 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 25.0 - 600 $\text{Å}^\circ\text{C}$	@Temperature 77.0 - 1110 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	38.9 W/m-K	270 BTU-in/hr-ft ² - $\text{Å}^\circ\text{F}$	
Maximum Service Temperature, Air	1750 $\text{Å}^\circ\text{C}$	3180 $\text{Å}^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
AI2O3	99.8 %	99.8 %	

Electrical Properties	Metric	English	Comments
Dielectric Constant	9.3	9.3	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	9.10 kV/mm	231 kV/in	
Dielectric Loss Index	0.0016	0.0016	1 MHz, 25 $\text{Å}^\circ\text{C}$ (77 $\text{Å}^\circ\text{F}$)

Descriptive Properties	Value	Comments
Color	Ivory	

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