

ICE AI203 99.5

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-AI203-995.php

Physical Properties	Metric	English	Comments
Density	3.85 g/cc	0.139 lb/in ³	
Water Absorption	0.00 %	0.00 %	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	9.0	9.0	
Tensile Strength, Ultimate	170 MPa	24700 psi	
Flexural Strength	310 MPa	45000 psi	
Compressive Strength	2590 MPa	376000 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	35.6 W/m-K	247 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
Al2O3	99.5 %	99.5 %	

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	0.0018	0.0018	1 MHz, 25 $\text{Å}^\circ\text{C}$ (77 $\text{Å}^\circ\text{F}$)

Descriptive Properties	Value	Comments
Color	White Ivory	

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