

ICE Mullite, 3Al₂O₃-SiO₂

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-Mullite-3Al₂O₃-SiO₂.php](http://www.lookpolymers.com/polymer_ICE-Mullite-3Al2O3-SiO2.php)

Physical Properties	Metric	English	Comments
Water Absorption	0.00 %	0.00 %	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	8.0	8.0	
Tensile Strength, Ultimate	100 MPa	14500 psi	
Flexural Strength	100 MPa	14500 psi	
Compressive Strength	1000 MPa	145000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	5.30 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	2.94 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 25.0 - 600 $\text{Å}^\circ\text{C}$	@Temperature 77.0 - 1110 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	3.50 W/m-K	24.3 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	
Maximum Service Temperature, Air	1710 $\text{Å}^\circ\text{C}$	3110 $\text{Å}^\circ\text{F}$	

Descriptive Properties	Value	Comments
Color	Tan	

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