

ICE ZrO

Category : Ceramic , Oxide , Zirconium Oxide

Material Notes:

Data provided by the manufacturer, International Ceramic Engineering.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ICE-ZrO.php

Physical Properties	Metric	English	Comments
Density	6.07 g/cc	0.219 lb/in ³	
Water Absorption	0.00 %	0.00 %	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	8.7	8.7	
Flexural Strength	700 MPa	102000 psi	
Fracture Toughness	13.0 MPa-m ^{1/2}	11.8 ksi-in ^{1/2}	

Thermal Properties	Metric	English	Comments
CTE, linear	10.3 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	5.72 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 25.0 - 600 $\text{Å}^\circ\text{C}$	@Temperature 77.0 - 1110 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	2.20 W/m-K	15.3 BTU-in/hr-ft ² - $\text{Å}^\circ\text{F}$	
Maximum Service Temperature, Air	2400 $\text{Å}^\circ\text{C}$	4350 $\text{Å}^\circ\text{F}$	

Descriptive Properties	Value	Comments
Color	Yellow White	

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