

ICE Hot Pressed SiC

Category : Ceramic , Carbide

Material Notes:

Data provided by the manufacturer, International Ceramic Engineering.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ICE-Hot-Pressed-SiC.php

Physical Properties	Metric	English	Comments
Density	3.33 g/cc	0.120 lb/in ³	
Water Absorption	0.00 %	0.00 %	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	11	11	
Flexural Strength	320 MPa	46400 psi	
Fracture Toughness	4.00 MPa-m ^{1/2}	3.64 ksi-in ^{1/2}	

Thermal Properties	Metric	English	Comments
CTE, linear	5.80 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 25.0 - 600 $\text{Å}^\circ\text{C}$	3.22 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 77.0 - 1110 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	70.6 W/m-K	490 BTU-in/hr-ft ² - $\text{Å}^\circ\text{F}$	
Maximum Service Temperature, Air	1700 $\text{Å}^\circ\text{C}$	3090 $\text{Å}^\circ\text{F}$	

Descriptive Properties	Value	Comments
Color	Black	

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