

Acerde Silicon Carbide

Category : Ceramic , Carbide

Material Notes:

Silicon Carbide key properties: High oxidation resistance, High hardness, Resistive to thermal stress, High thermal conductivity, Low thermal expansion, High elastic modulus, Superior chemical inertness Silicon Carbide main applications domains: Refractories (furnace protection, nuclear, aerospace), Heating apparatus (Resistivity heaters, holders), Machining tools (cutting tools, abrasive, friction), Chemistry (catalyst holders, medical), Optics (mirrors for telescope), Crucibles (foundries), Susceptors Information provided by Acerde

Order this product through the following link:

http://www.lookpolymers.com/polymer_Acerde-Silicon-Carbide.php

Physical Properties	Metric	English	Comments
Density	3.21 g/cc	0.116 lb/in ³	

Mechanical Properties	Metric	English	Comments
Vickers Microhardness	2800	2800	
Tensile Modulus	420 GPa	60900 ksi	
Flexural Strength	610 MPa	88500 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	4.00 - 5.00 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	2.22 - 2.78 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature ≤ 1000 $^{\circ}\text{C}$	@Temperature ≤ 1830 $^{\circ}\text{F}$	
Thermal Conductivity	63.0 - 155 W/m-K	437 - 1080 BTU-in/hr-ft ² - $^{\circ}\text{F}$	
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Melting Point	2730 $^{\circ}\text{C}$	4950 $^{\circ}\text{F}$	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	100 - 1.00e+6 ohm-cm	100 - 1.00e+6 ohm-cm	
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	

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