

Sapco S.SiC Silicon Carbide

Category : Ceramic , Carbide

Material Notes:

Information provided by Sapco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sapco-SSiC-Silicon-Carbide.php

Physical Properties	Metric	English	Comments
Density	3.10 g/cc	0.112 lb/in ³	
Open Porosity	0.00 %	0.00 %	
Weibull Modulus	10	10	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	9.0	9.0	
Tensile Strength, Ultimate	450 MPa	65300 psi	
Modulus of Elasticity	410 GPa	59500 ksi	
Flexural Strength	410 MPa	59500 psi	
Compressive Strength	2000 MPa	290000 psi	
Poissons Ratio	0.17	0.17	
Shear Modulus	175 GPa	25400 ksi	Calculated

Thermal Properties	Metric	English	Comments
CTE, linear	3.80 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	2.11 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Specific Heat Capacity	1.00 J/g- $\text{Å}^\circ\text{C}$	0.239 BTU/lb- $\text{Å}^\circ\text{F}$	
Thermal Conductivity	100 W/m-K	694 BTU-in/hr-ft ² - $\text{Å}^\circ\text{F}$	
Maximum Service Temperature, Air	1400 $\text{Å}^\circ\text{C}$	2550 $\text{Å}^\circ\text{F}$	

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