

Sapco Si.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-SiSiC-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	390 MPa	56600 psi	
Modulus of Elasticity	410 GPa	59500 ksi	
Flexural Strength	400 MPa	58000 psi	
Compressive Strength	2000 MPa	290000 psi	
Poissons Ratio	0.24	0.24	
Shear Modulus	165 GPa	23900 ksi	Calculated

Thermal Properties	Metric	English	Comments
CTE, linear	4.30 Åµm/m-Å°C @Temperature 20.0 Å°C	2.39 Åµin/in-Å°F @Temperature 68.0 Å°F	
Specific Heat Capacity	1.10 J/g-Å°C	0.263 BTU/lb-Å°F	
Thermal Conductivity	160 W/m-K	1110 BTU-in/hr-ftÅ²-Å°F	
Maximum Service Temperature, Air	1350 Å°C	2460 Å°F	

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