

Poco Graphite SUPERSiC® 3C Silicon Carbide

Category : Ceramic , Carbide

Material Notes:

SUPERSiC that has been coated with a 75 µm CVD SiC coating, which seals the surface. Uses: Ideal for high-temperature deposition and CVD applications. Information provided by PocoGraphite

Order this product through the following link:

http://www.lookpolymers.com/polymer_Poco-Graphite-SUPERSiC-3C-Silicon-Carbide.php

Physical Properties	Metric	English	Comments
Bulk Density	2.55 g/cc	0.0921 lb/in³	
Density	3.15 g/cc	0.114 lb/in³	
Porosity	0.00 %	0.00 %	porosity sealed off by CVD SiC coating
	20 %	20 %	porosity is sealed under the dense coating, porosity is not exposed to the process

Mechanical Properties	Metric	English	Comments
Tensile Strength	129 MPa	18700 psi	
Modulus of Elasticity	216 GPa	31300 ksi	
Flexural Strength	154 MPa	22400 psi	
Poissons Ratio	0.17	0.17	
Fracture Toughness	2.30 MPa-m½	2.09 ksi-in½	
Shear Modulus	96.0 GPa	13900 ksi	Dynamic

Thermal Properties	Metric	English	Comments
CTE, linear	2.40 µm/m-°C	1.33 µin/in-°F	
Thermal Conductivity	170 W/m-K	1180 BTU-in/hr-ft²-°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00400 ohm-cm	0.00400 ohm-cm	

Descriptive Properties	Value	Comments
Specific stiffness	85 kN.m/g	
Total impurity level		

Descriptive Properties	<100 ppm Value	Comments
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