

Ceradyne CeraTrex™ 146-12E Silicon Carbide

Category : Ceramic , Carbide

Material Notes:

Features:corrosion resistancewear resistancetailored electrical propertiesApplications:semiconductor componentsInformation provided by Ceradyne Company

Order this product through the following link:
http://www.lookpolymers.com/polymer_Ceradyne-CeraTrex-146-12E-Silicon-Carbide.php

Physical Properties	Metric	English	Comments
Density	3.17 g/cc	0.115 lb/in³	
Weibull Modulus	12	12	

Mechanical Properties	Metric	English	Comments
Vickers Microhardness	2300	2300	0.3
Modulus of Elasticity	405 GPa	58700 ksi	
Flexural Strength	448 MPa @Temperature 23.0 °C	65000 psi @Temperature 73.4 °F	
Poissons Ratio	0.17	0.17	
Fracture Toughness	4.10 MPa-m½	3.73 ksi-in½	
Shear Modulus	173 GPa	25100 ksi	calculated
Abrasion	1201	1201	Abrasive Wear Resistance Parameter

Thermal Properties	Metric	English	Comments
CTE, linear	5.50 µm/m-°C @Temperature 20.0 - 1000 °C	3.06 µin/in-°F @Temperature 68.0 - 1830 °F	
Thermal Conductivity	60.0 W/m-K	416 BTU-in/hr-ft²-°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00 ohm-cm	1.00 ohm-cm	

Descriptive Properties	Value	Comments
Purity, %	97	
Thermal Shock Parameter		

Descriptive Properties	167°C Value	Comments
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