

Ceradyne CeraTrex™ 146-3E Silicon Carbide

Category : Ceramic , Carbide

Material Notes:

Features:high puritycorrosion resistancewear resistancetailed electrical properties Applications:semiconductor componentssputtering targetsballistic armorwear componentsInformation provided by Ceradyne Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ceradyne-CeraTrex-146-3E-Silicon-Carbide.php

Physical Properties	Metric	English	Comments
Density	3.20 g/cc	0.116 lb/in ³	
Weibull Modulus	18	18	

Mechanical Properties	Metric	English	Comments
Vickers Microhardness	2300	2300	0.3
Modulus of Elasticity	450 GPa	65300 ksi	
Flexural Strength	634 MPa @Temperature 23.0 °C	92000 psi @Temperature 73.4 °F	
Poissons Ratio	0.17	0.17	
Fracture Toughness	4.30 MPa-m ^{1/2}	3.91 ksi-in ^{1/2}	
Shear Modulus	192 GPa	27800 ksi	calculated
Abrasion	1130	1130	Abrasive Wear Resistance Parameter

Thermal Properties	Metric	English	Comments
CTE, linear	4.80 µm/m-°C @Temperature 20.0 - 1000 °C	2.67 µin/in-°F @Temperature 68.0 - 1830 °F	
Thermal Conductivity	115 W/m-K	798 BTU-in/hr-ft ² -°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+7 ohm-cm	1.00e+7 ohm-cm	

Descriptive Properties	Value	Comments
Purity, %	98.5	
Thermal Shock Parameter		

Descriptive Properties	244°C Value	Comments
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