

Ceradyne CeraTrex™ SC-P3 Silicon Carbide

Category : Ceramic , Carbide

Material Notes:

Features:purity>99.9995%corrosion resistancewear resistancenear net shape fabrication to 400 mm OD Applications:semiconductor componentswear componentsInformation provided by Ceradyne Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ceradyne-CeraTrex-SC-P3-Silicon-Carbide.php

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

Mechanical Properties	Metric	English	Comments
Vickers Microhardness	2850	2850	0.3
Modulus of Elasticity	440 GPa	63800 ksi	
Flexural Strength	375 MPa @Temperature 23.0 °C	54400 psi @Temperature 73.4 °F	
Poissons Ratio	0.17	0.17	
Fracture Toughness	3.10 MPa-m ^{1/2}	2.82 ksi-in ^{1/2}	
Shear Modulus	188 GPa	27300 ksi	calculated
Abrasion	1178	1178	Abrasive Wear Resistance Parameter

Thermal Properties	Metric	English	Comments
CTE, linear	4.50 μm/m-°C @Temperature 20.0 - 1000 °C	2.50 μin/in-°F @Temperature 68.0 - 1830 °F	
Thermal Conductivity	200 W/m-K	1390 BTU-in/hr-ft ² -°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	3000 ohm-cm	3000 ohm-cm	

Descriptive Properties	Value	Comments
Purity, %	99.9995	
Thermal Shock Parameter	157°C	

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