

Ceradyne CeraTrex™ 146-S5 Silicon Carbide

Category : Ceramic , Carbide

Material Notes:

Features:corrosion resistancewear resistancehardnessnet shape fabricationApplications:wear componentsInformation provided by Ceradyne Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ceradyne-CeraTrex-146-S5-Silicon-Carbide.php

Physical Properties	Metric	English	Comments
Density	3.20 g/cc	0.116 lb/in ³	
Weibull Modulus	15	15	

Mechanical Properties	Metric	English	Comments
Vickers Microhardness	2600	2600	0.3
Modulus of Elasticity	430 GPa	62400 ksi	
Flexural Strength	400 MPa @Temperature 23.0 °C	58000 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	184 GPa	26700 ksi	calculated
Abrasion	1263	1263	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	120 W/m-K	833 BTU-in/hr-ft ² -°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+6 ohm-cm	1.00e+6 ohm-cm	

Descriptive Properties	Value	Comments
Purity, %	95	
Thermal Shock Parameter		

Descriptive Properties	180°C Value	Comments
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