

## Ceradyne CeraTrex™ 146-IS Silicon Carbide

Category : Ceramic , Carbide

### Material Notes:

Features:high puritycorrosion resistancewear resistanceApplications:semiconductor componentssputtering targetsInformation provided by Ceradyne Company

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ceradyne-CeraTrex-146-IS-Silicon-Carbide.php](http://www.lookpolymers.com/polymer_Ceradyne-CeraTrex-146-IS-Silicon-Carbide.php)

Physical Properties	Metric	English	Comments
Density	3.15 g/cc	0.114 lb/in <sup>3</sup>	
Weibull Modulus	12	12	

Mechanical Properties	Metric	English	Comments
Vickers Microhardness	2300	2300	0.3
Modulus of Elasticity	400 GPa	58000 ksi	
Flexural Strength	380 MPa @Temperature 23.0 °C	55100 psi @Temperature 73.4 °F	
Poissons Ratio	0.17	0.17	
Fracture Toughness	2.50 MPa-m <sup>1/2</sup>	2.28 ksi-in <sup>1/2</sup>	
Shear Modulus	171 GPa	24800 ksi	calculated
Abrasion	947	947	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 <sup>2</sup> -°F	

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

Descriptive Properties	Value	Comments
Purity, %	99.3	
Thermal Shock Parameter		

Descriptive Properties	164°C Value	Comments
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## Contact Songhan Plastic Technology Co.,Ltd.

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