

Ceradyne Ceralloy® 546 Boron Carbide

Category : Ceramic , Carbide

Material Notes:

Features:neutron absorptionwear resistancehardnesslightweightApplications:semiconductor componentswear componentsballistic armorsputtering targetsnuclear shieldingInformation provided by Ceradyne Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ceradyne-Ceralloy-546-Boron-Carbide.php

Physical Properties	Metric	English	Comments
Density	2.50 g/cc	0.0903 lb/in ³	
Weibull Modulus	12	12	

Mechanical Properties	Metric	English	Comments
Vickers Microhardness	3200	3200	
Modulus of Elasticity	460 GPa	66700 ksi	
Flexural Strength	410 MPa @Temperature 23.0 °C	59500 psi @Temperature 73.4 °F	
Poissons Ratio	0.17	0.17	
Fracture Toughness	2.50 MPa-m ^{1/2}	2.28 ksi-in ^{1/2}	
Shear Modulus	197 GPa	28600 ksi	calculated

Thermal Properties	Metric	English	Comments
CTE, linear	5.60 µm/m-°C @Temperature 20.0 - 1000 °C	3.11 µin/in-°F @Temperature 68.0 - 1830 °F	
Thermal Conductivity	90.0 W/m-K	625 BTU-in/hr-ft ² -°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	10.0 ohm-cm	10.0 ohm-cm	

Descriptive Properties	Value	Comments
Grain Size, microns	15	
Purity, %	>98.5	

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