

Ceradyne Ceralloy® 225 Titanium Diboride

Category : Ceramic , Boride

Material Notes:

Features:electrical conductancewear resistancehardnessApplications:wear componentsballistic armorsputtering targetsInformation provided by Ceradyne Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ceradyne-Ceralloy-225-Titanium-Diboride.php

Physical Properties	Metric	English	Comments
Density	4.50 g/cc	0.163 lb/in ³	

Mechanical Properties	Metric	English	Comments
Vickers Microhardness	2100	2100	0.3
Modulus of Elasticity	540 GPa	78300 ksi	
Flexural Strength	265 MPa @Temperature 23.0 °C	38400 psi @Temperature 73.4 °F	
Poissons Ratio	0.22	0.22	
Fracture Toughness	5.47 MPa-m ^{1/2}	4.98 ksi-in ^{1/2}	
Shear Modulus	221 GPa	32100 ksi	calculated

Thermal Properties	Metric	English	Comments
CTE, linear	8.20 µm/m-°C @Temperature 20.0 - 1000 °C	4.56 µin/in-°F @Temperature 68.0 - 1830 °F	
Thermal Conductivity	25.0 W/m-K	174 BTU-in/hr-ft ² -°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000100 ohm-cm	0.0000100 ohm-cm	

Descriptive Properties	Value	Comments
Purity, %	>98.5	

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