

Ceradyne Ceralloy® 1370CS Aluminum Nitride

Category : Ceramic , Nitride

Material Notes:

Features:high thermal conductivityApplications:semiconductor componentsInformation provided by Ceradyne Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ceradyne-Ceralloy-1370CS-Aluminum-Nitride.php

Physical Properties	Metric	English	Comments
Density	3.30 g/cc	0.119 lb/in ³	
Weibull Modulus	37	37	

Mechanical Properties	Metric	English	Comments
Vickers Microhardness	1000	1000	
Modulus of Elasticity	320 GPa	46400 ksi	
Flexural Strength	200 MPa @Temperature 23.0 °C	29000 psi @Temperature 73.4 °F	
Poissons Ratio	0.24	0.24	
Fracture Toughness	3.00 MPa-m ^{1/2}	2.73 ksi-in ^{1/2}	
Shear Modulus	129 GPa	18700 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	170 W/m-K	1180 BTU-in/hr-ft ² -°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
Dielectric Constant	8.9	8.9	

Descriptive Properties	Value	Comments
Grain Size, microns	10	
Purity, %	99	

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