

Ceradyne Ceralloy® 398J Yttrium Oxide

Category : Ceramic , Oxide

Material Notes:

Ceralloy® 398J Hot Pressed Yttrium Oxide is a high purity hot-pressed ceramic exhibiting excellent corrosion and erosion resistance. Products produced from Hot Pressed Yttrium Oxide are for semiconductor wafer processing applications. Information provided by Ceradyne Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ceradyne-Ceralloy-398J-Yttrium-Oxide.php

Physical Properties	Metric	English	Comments
Density	5.00 g/cc	0.181 lb/in ³	

Mechanical Properties	Metric	English	Comments
Vickers Microhardness	585	585	0.3
Modulus of Elasticity	170 GPa	24700 ksi	
Flexural Strength	99.0 MPa @Temperature 23.0 °C	14400 psi @Temperature 73.4 °F	
Poissons Ratio	0.31	0.31	
Fracture Toughness	1.40 MPa-m ^{1/2}	1.27 ksi-in ^{1/2}	
Shear Modulus	64.9 GPa	9410 ksi	Calculated

Thermal Properties	Metric	English	Comments
CTE, linear	9.10 μm/m-°C @Temperature 20.0 - 1000 °C	5.06 μin/in-°F @Temperature 68.0 - 1830 °F	
Thermal Conductivity	14.0 W/m-K	97.2 BTU-in/hr-ft ² -°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	

Descriptive Properties	Value	Comments
Purity, %	99.9	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China