

Sapco Silicon Nitride, Si₃N₄

Category : Ceramic , Nitride

Material Notes:

Information provided by Sapco.

Order this product through the following link:

[http://www.lookpolymers.com/polymer_Sapco-Silicon-Nitride-Si₃N₄.php](http://www.lookpolymers.com/polymer_Sapco-Silicon-Nitride-Si3N4.php)

Physical Properties	Metric	English	Comments
Density	3.20 g/cc	0.116 lb/in ³	
Open Porosity	0.00 %	0.00 %	
Weibull Modulus	20	20	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	9.0	9.0	
Tensile Strength, Ultimate	350 MPa	50800 psi	
Modulus of Elasticity	300 GPa	43500 ksi	
Flexural Strength	750 MPa	109000 psi	
Compressive Strength	3000 MPa	435000 psi	
Poissons Ratio	0.26	0.26	
Shear Modulus	119 GPa	17300 ksi	Calculated

Thermal Properties	Metric	English	Comments
CTE, linear	3.20 Åµm/m-Å°C @Temperature 20.0 Å°C	1.78 Åµin/in-Å°F @Temperature 68.0 Å°F	
Thermal Conductivity	35.0 W/m-K	243 BTU-in/hr-ftÅ²-Å°F	
Maximum Service Temperature, Air	1400 Å°C	2550 Å°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	

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