

Tokuyama Shapal™ SH-50 Sintered Aluminum Nitride

Category : Ceramic , Nitride

Material Notes:

Uniform, large sized pressed sintered aluminum nitride.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tokuyama-Shapal-SH-50-Sintered-Aluminum-Nitride.php

Physical Properties	Metric	English	Comments
Density	3.24 g/cc	0.117 lb/in ³	

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	320 GPa	46400 ksi	
Flexural Strength	356 MPa	51600 psi	
Poissons Ratio	0.24	0.24	
Shear Modulus	129 GPa	18700 ksi	Calculated

Thermal Properties	Metric	English	Comments
CTE, linear	3.90 μm/m-°C	2.17 μin/in-°F	
Thermal Conductivity	86.0 W/m-K	597 BTU-in/hr-ft ² -°F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.10e+13 ohm-cm	3.10e+13 ohm-cm	
Dielectric Constant	8.9 @Frequency 1.00e+6 Hz	8.9 @Frequency 1.00e+6 Hz	
Dielectric Strength	18.7 kV/mm	475 kV/in	
Dissipation Factor	0.00026 @Frequency 1.00e+6 Hz	0.00026 @Frequency 1.00e+6 Hz	

Descriptive Properties	Value	Comments
Purity	> 99.0 (Al + N)	
	> 99.9 (Al + N + O)	

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