

Ceradyne Ceralloy® 13740Y AlN-SiC

Category : Ceramic , Carbide , Nitride

Material Notes:

Applications: replacement for Ceralloy® 2710 BeO-SiC terminations sever wedges load pellets absorbers
 Information provided by Ceradyne Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ceradyne-Ceralloy-13740Y-AlN-SiC.php

Physical Properties	Metric	English	Comments
Density	3.19 g/cc	0.115 lb/in ³	

Mechanical Properties	Metric	English	Comments
Flexural Strength	300 MPa	43500 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	5.10 µm/m-°C	2.83 µin/in-°F	
	@Temperature 20.0 - 1000 °C	@Temperature 68.0 - 1830 °F	
Thermal Conductivity	53.0 W/m-K	368 BTU-in/hr-ft ² -°F	

Electrical Properties	Metric	English	Comments
Dielectric Constant	21	21	
	@Frequency 1e+10 Hz	@Frequency 1e+10 Hz	
	22	22	
	@Frequency 8.00e+9 Hz	@Frequency 8.00e+9 Hz	
Dissipation Factor	30	30	
	@Frequency 1e+9 Hz	@Frequency 1e+9 Hz	
	0.11	0.11	
	@Frequency 1e+9 Hz	@Frequency 1e+9 Hz	
	0.28	0.28	
	@Frequency 1e+10 Hz	@Frequency 1e+10 Hz	
	0.30	0.30	
	@Frequency 8.00e+9 Hz	@Frequency 8.00e+9 Hz	

Descriptive Properties	Value	Comments
Composition	AlN+40%SiC	

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