

## Ceradyne Ceralloy® 13740 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-13740-AlN-SiC.php](http://www.lookpolymers.com/polymer_Ceradyne-Ceralloy-13740-AlN-SiC.php)

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

Mechanical Properties	Metric	English	Comments
Flexural Strength	300 MPa	43500 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	5.10 $\mu\text{m}/\text{m}\cdot\text{°C}$	2.83 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 - 1000 °C	@Temperature 68.0 - 1830 °F	
Thermal Conductivity	30.0 W/m-K	208 BTU-in/hr-ft <sup>2</sup> -°F	

Electrical Properties	Metric	English	Comments
Dielectric Constant	15	15	
	@Frequency 8.00e+9 Hz	@Frequency 8.00e+9 Hz	
	15	15	
	@Frequency 1e+10 Hz	@Frequency 1e+10 Hz	
Dissipation Factor	22	22	
	@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	

## Contact Songhan Plastic Technology Co.,Ltd.

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