

**Ceradyne Ceralloy® 1370CS AlN**

Category : Ceramic , Nitride

**Material Notes:**

Applications: replacement for 99.5 BeO collector rod helix support windows  
 Features: higher thermal conductivity than BeO at high temperatures.  
 Information provided by Ceradyne Company

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ceradyne-Ceralloy-1370CS-AlN.php](http://www.lookpolymers.com/polymer_Ceradyne-Ceralloy-1370CS-AlN.php)

Physical Properties	Metric	English	Comments
Density	3.26 g/cc	0.118 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Flexural Strength	260 MPa	37700 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	4.30 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	2.39 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 - 1000 $^\circ\text{C}$	@Temperature 68.0 - 1830 $^\circ\text{F}$	
Thermal Conductivity	160 - 200 W/m-K	1110 - 1390 BTU-in/hr-ft <sup>2</sup> - $^\circ\text{F}$	

Electrical Properties	Metric	English	Comments
Dielectric Constant	8.0 - 9.0	8.0 - 9.0	
	@Frequency 1e+9 Hz	@Frequency 1e+9 Hz	

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