

Aremco Ceramacast™ 675-N High Temperature Potting & Casting Material Aluminum Nitride

Category : Ceramic , Nitride

Material Notes:

Fine grain aluminum nitride castable with high thermal conductivity.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aremco-Ceramacast-675-N-High-Temperature-Potting-Casting-Material-Aluminum-Nitride.php

Physical Properties	Metric	English	Comments
Bulk Density	1.26 g/cc	0.0454 lb/in ³	Powder
Density	1.80 g/cc	0.0650 lb/in ³	
Porosity	<= 3.0 %	<= 3.0 %	
pH	2.0 - 3.0	2.0 - 3.0	
Viscosity	15000 cP	15000 cP	mixed

Mechanical Properties	Metric	English	Comments
Compressive Strength	13.8 MPa	2000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	5.22 µm/m-°C	2.90 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	1200 °C	2200 °F	
Shrinkage	<= 0.300 %	<= 0.300 %	
	@Temperature 538 °C	@Temperature 1000 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	
Dielectric Strength	11.8 kV/mm	300 kV/in	

Processing Properties	Metric	English	Comments
Dry Time	>= 8 hour	>= 8 hour	Air dry
Cure Time	300 - 420 min	5.00 - 7.00 hour	2-4 hrs at 200°F; 3 hrs at 250°F
Pot Life	60 - 120 min	60 - 120 min	

Processing Properties	Metric	English	Comments
Descriptive Properties		Value	Comments
Acid Resistance		Good	attacked by HF
Alkali Resistance		Good	
Color		Light Gray	
Mix Ratio		100:16-18	powder:liquid
Moisture Resistance		Good	

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