

Aremco Ceramacast™ 646-N High Temperature Potting & Casting Material Zirconia

Category : Ceramic , Oxide , Zirconium Oxide , Potting/Casting Ceramic

Material Notes:

Castable ceramic with high dielectric and physical strength.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aremco-Ceramacast-646-N-High-Temperature-Potting-Casting-Material-Zirconia.php

Physical Properties	Metric	English	Comments
Bulk Density	1.86 g/cc	0.0671 lb/in ³	Powder
Porosity	<= 2.0 %	<= 2.0 %	
pH	2.0 - 3.0	2.0 - 3.0	
Viscosity	9000 cP	9000 cP	
Thickness	107 microns	4.20 mil	0

Mechanical Properties	Metric	English	Comments
Compressive Strength	79.3 MPa	11500 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	5.58 $\mu\text{m}/\text{m}\cdot\text{°C}$	3.10 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	1650 °C	3000 °F	
Shrinkage	<= 0.300 %	<= 0.300 %	
	@Temperature 538 °C	@Temperature 1000 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+9 ohm-cm	1.00e+9 ohm-cm	
Dielectric Strength	9.84 kV/mm	250 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		Tan	
Mix Ratio		100:12-14	
Moisture Resistance		Good	

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