

Aremco Ceramacast™ 645-N High Temperature Potting & Casting Material Silica

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

Material Notes:

Castable ceramic with low thermal conductivity.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aremco-Ceramacast-645-N-High-Temperature-Potting-Casting-Material-Silica.php

Physical Properties	Metric	English	Comments
Bulk Density	1.32 g/cc	0.0476 lb/in ³	Powder
Porosity	<= 5.0 %	<= 5.0 %	
pH	2.0 - 3.0	2.0 - 3.0	
Viscosity	10000 cP	10000 cP	

Mechanical Properties	Metric	English	Comments
Compressive Strength	48.3 MPa	7000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	2.70 µm/m-°C	1.50 µin/in-°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	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	
Shelf Life	12.0 Month	12.0 Month	

Descriptive Properties	Value	Comments
Acid Resistance	Good	attacked by HF
Alkali Resistance	Good	
Color	Off White	
Mix Ratio	100:18-20	powder:liquid
Moisture Resistance	Good	

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