

Aremco Ceramacast™ 584 High Temperature Potting & Casting Material Magnesia

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

Material Notes:

Two-part, quick-set ceramic for small parts.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aremco-Ceramacast-584-High-Temperature-Potting-Casting-Material-Magnesia.php

Physical Properties	Metric	English	Comments
Bulk Density	1.44 g/cc	0.0520 lb/in ³	Powder
Porosity	<= 6.00 %	<= 6.00 %	
pH	11 - 12	11 - 12	
Viscosity	18000 cP	18000 cP	

Mechanical Properties	Metric	English	Comments
Compressive Strength	31.0 MPa	4500 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	11.7 µm/m-°C	6.50 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	1540 °C	2800 °F	
Shrinkage	<= 4.00 %	<= 4.00 %	
	@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	3.94 kV/mm	100 kV/in	

Processing Properties	Metric	English	Comments
Dry Time	>= 2 hour	>= 2 hour	Air dry
Cure Time	300 min	5.00 hour	2 hrs at 200°F; 3 hrs at 250°F
Pot Life	<= 10.0 min	<= 10.0 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	100:25-30	powder:liquid
Moisture Resistance	Good	

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