

Aremco Ceramacast™ 586 High Temperature Potting & Casting Material Zirconia Silicate

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

Material Notes:

Castable ceramic for ceramic and metal assemblies. Excellent handling, fast curing.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aremco-Ceramacast-586-High-Temperature-Potting-Casting-Material-Zirconia-Silicate.php

Physical Properties	Metric	English	Comments
Bulk Density	1.68 g/cc	0.0608 lb/in ³	Powder
Porosity	<= 2.0 %	<= 2.0 %	
pH	2.0 - 3.0	2.0 - 3.0	
Viscosity	15000 cP	15000 cP	

Mechanical Properties	Metric	English	Comments
Compressive Strength	55.2 MPa	8000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	4.86 $\mu\text{m}/\text{m}\cdot\text{°C}$	2.70 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	1540 °C	2800 °F	
Shrinkage	<= 0.300 %	<= 0.300 %	
	@Temperature 538 °C	@Temperature 1000 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+11 ohm-cm	1.00e+11 ohm-cm	
Dielectric Strength	4.92 kV/mm	125 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	
Alkali Resistance	Good	
Color	Off White	
Mix Ratio	100:13-15	
Moisture Resistance	Good	

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