

Aremco Ceramacast™ 900 High Temperature Potting & Casting Material Zirconia Silicate

Category : Ceramic , Oxide , Silicon Oxide , Zirconium Oxide

Material Notes:

High Density, high strength molding compound.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aremco-Ceramacast-900-High-Temperature-Potting-Casting-Material-Zirconia-Silicate.php

Physical Properties	Metric	English	Comments
Bulk Density	1.56 g/cc	0.0562 lb/in ³	Powder
Porosity	<= 5.0 %	<= 5.0 %	
pH	5.0 - 6.0	5.0 - 6.0	
Viscosity	25000 cP	25000 cP	

Mechanical Properties	Metric	English	Comments
Compressive Strength	55.2 MPa	8000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	5.04 $\mu\text{m}/\text{m}\cdot\text{°C}$	2.80 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	1540 °C	2800 °F	
Shrinkage	<= 1.00 %	<= 1.00 %	
	@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	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	<= 20 min	<= 20 min	
Shelf Life	12.0 Month	12.0 Month	

Descriptive Properties	Value	Comments
Acid Resistance	Good	
Alkali Resistance	Good	
Color	Off White	
Mix Ratio	100:15-17	
Moisture Resistance	Good	

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