

Aremco Aremco-Bond™ 2315 High Performance Epoxide

Category : Polymer , Thermoset , Epoxy

Material Notes:

High Temperature, Low Viscosity, Potting Compound for Electrical Applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aremco-Aremco-Bond-2315-High-Performance-Epoxide.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.95 g/cc	1.95 g/cc	
Viscosity	3000 cP	3000 cP	Mixed Viscosity

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	92	92	
Flexural Strength	84.8 MPa	12300 psi	ASTM D790

Thermal Properties	Metric	English	Comments
CTE, linear	34.2 $\mu\text{m}/\text{m}\cdot\text{°C}$	19.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	1.21 W/m-K	8.40 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	185 °C	365 °F	
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	
Shrinkage	0.30 %	0.30 %	Cure Shrinkage

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	
Dielectric Constant	4.7	4.7	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	18.9 kV/mm	480 kV/in	
Dissipation Factor	0.010	0.010	

Processing Properties	Metric	English	Comments
Cure Time	240 min	4.00 hour	2 hrs at 160°F; 2 hrs at 300°F (Recommended Cure)

Processing Properties	360 min Metric	6.00 hour English	Comments
	@Temperature 121 °C	@Temperature 250 °F	
Pot Life	120 min @Temperature 25.0 °C	120 min @Temperature 77.0 °F	100 gm mass

Descriptive Properties	Value	Comments
Chemical Resistance	Excellent	
Color	Black	
Mix Ratio By Weight	100:25	resin:hardener

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