

Aremco Aremco-Bond™ 2220 High Performance Epoxide

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

Ceramic-Filled, High Chemical Resistance, Machinable. For Repairing Deeply-Corroded Parts.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aremco-Aremco-Bond-2220-High-Performance-Epoxy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.70 g/cc	1.70 g/cc	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	88	88	
Flexural Strength	110 MPa	16000 psi	ASTM D790
Shear Strength	18.6 MPa	2700 psi	ASTM D1002-94

Thermal Properties	Metric	English	Comments
CTE, linear	32.4 $\mu\text{m}/\text{m}\cdot\text{°C}$	18.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	204 °C	400 °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	2.00e+15 ohm-cm	2.00e+15 ohm-cm	
Dielectric Constant	6.8	6.8	
	@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	120 min	2.00 hour	Alternate Cure
	@Temperature 93.3 °C	@Temperature 200 °F	
	720 - 1440 min	12.0 - 24.0 hour	

Processing Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	Recommended Cure Comments
Pot Life	60.0 min @Temperature 25.0 °C	60.0 min @Temperature 77.0 °F	100 gm mass

Descriptive Properties	Value	Comments
Chemical Resistance	Very Good	
Color	Black	
Mix Ratio By Weight	100:28	resin:hardener
Viscosity	Paste	

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