

Aremco Aremco-Bond™ 2310 High Performance Epoxide

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

Ceramic-Filled, 1:1, High Lap Shear and Peel Strength, Autoclavable.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aremco-Aremco-Bond-2310-High-Performance-Epoxy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	
Viscosity	45000 cP	45000 cP	Mixed Viscosity

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	78	78	
Flexural Strength	82.7 MPa	12000 psi	ASTM D790
Shear Strength	32.9 MPa	4770 psi	ASTM D1002-94

Thermal Properties	Metric	English	Comments
CTE, linear	77.4 $\mu\text{m}/\text{m}\cdot\text{°C}$	43.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	163 °C	325 °F	
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	
Shrinkage	0.10 %	0.10 %	Cure Shrinkage

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.00e+13 ohm-cm	3.00e+13 ohm-cm	
Dielectric Constant	4.28	4.28	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	16.1 kV/mm	410 kV/in	
Dissipation Factor	0.40	0.40	

Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	Recommended Cure
	@Temperature 65.6 °C	@Temperature 150 °F	

Processing Properties	Metric _{in}	English _{ur}	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	Alternate Cure
Pot Life	45.0 min @Temperature 25.0 °C	45.0 min @Temperature 77.0 °F	100 gm mass

Descriptive Properties	Value	Comments
Chemical Resistance	Good	
Color	Black	
Mix Ratio By Weight	1:1	resin:hardener

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