

Aremco Aremco-Bond™ 631 High Performance Epoxide

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

Clear-Amber, 1:1, Good Bond Strength and Corrosion Resistance. Also available filled with aluminum oxide (Alumina) or pigments.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aremco-Aremco-Bond-631-High-Performance-Epoxy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	
Viscosity	25000 cP	25000 cP	Mixed Viscosity

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75	75	
Flexural Strength	70.3 MPa	10200 psi	ASTM D790
Shear Strength	20.7 MPa	3000 psi	ASTM D1002-94

Thermal Properties	Metric	English	Comments
CTE, linear	48.6 $\mu\text{m}/\text{m}\cdot\text{°C}$	27.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	204 °C	400 °F	
Minimum Service Temperature, Air	-65.0 °C	-85.0 °F	
Shrinkage	0.20 %	0.20 %	Cure Shrinkage

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.20e+14 ohm-cm	1.20e+14 ohm-cm	
Dielectric Constant	3.12	3.12	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	17.3 kV/mm	440 kV/in	
Dissipation Factor	0.010	0.010	

Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	Recommended Cure
	@Temperature 93.3 °C	@Temperature 200 °F	

Processing Properties	Metric	English	Comments
	2880 min	8.0 hour	at RT, Alternate Cure
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Pot Life	240 min	240 min	100 gm mass
	@Temperature 25.0 °C	@Temperature 77.0 °F	

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

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