

Atom Adhesives AA-BOND 2112 Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

AA-BOND 2112 is a thixotropic epoxy system recommended for critical electronics, aerospace and industrial bonding, laminating and reinforcing applications requiring an adhesive with high-fill, non-sag characteristics. AA-BOND 2112 solvent-free adhesive is easily mixed and used for staking components to printed circuit boards for enhanced mechanical rigidity, and for bonding, laminating and repair applications involving metals, glass, ceramics, wood and many plastics. AA-BOND 2112 hardens to a tough, enamel-like coating offering good chemical resistance as well as superior physical and mechanical properties. The cured adhesive provides good electrical insulation and resistance to weather, galvanic action, petroleum products and lubricants, alcohol, salts, mild acids and alkalis, and other organic and inorganic compounds. Appearance: Milky Translucent Cure Type: Heat cure or Room Temperature Benefits: Tough enamel like cure Bonds variety of substrates Good electrical insulation Weather resistant Mix Ratio by weight: 100:22/Resin:Hardener Substrates: metals, glass, ceramics, wood and many plastics Typical Application: Printed circuit board repair, staking components, bonding, laminating and repair applications Information provided by Atom Adhesives

Order this product through the following link:

http://www.lookpolymers.com/polymer_Atom-Adhesives-AA-BOND-2112-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	
Solids Content	100 %	100 %	
Viscosity	60000 cP	60000 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	90	90	
Adhesive Bond Strength	13.1 MPa	1900 psi	Alum to Alum
Izod Impact, Notched	0.400 J/cm	0.750 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	55.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	30.6 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
Maximum Service Temperature, Air	125 $^\circ\text{C}$	257 $^\circ\text{F}$	
Minimum Service Temperature, Air	-60.0 $^\circ\text{C}$	-76.0 $^\circ\text{F}$	
Glass Transition Temp, Tg	93.0 $^\circ\text{C}$	199 $^\circ\text{F}$	

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.00e+13 ohm-cm	6.00e+13 ohm-cm	

Electrical Properties	@Temperature 100 °C Metric	@Temperature 212 °F English	Comments
Dielectric Constant	4.6	4.6	
Dissipation Factor	0.010 @Frequency 1000 Hz	0.010 @Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	240 min @Temperature 65.0 °C	4.00 hour @Temperature 149 °F	
	1440 min @Temperature 25.0 °C	24.0 hour @Temperature 77.0 °F	
Pot Life	30.0 min	30.0 min	

Descriptive Properties	Value	Comments
Thixotropic Index	6.5	

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