

Atom Adhesives AA-BOND FDA15 Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

AA-BOND FDA15 is a low viscosity epoxy resin system specifically developed for bonding and coating applications in accordance with Title 21, U.S. Code of Federal Regulations, Food and Drug Administration Chapter 1, Sub Part B, Sections 175.105 and 175.300. AA-BOND FDA15 is two-part adhesive is used for bonding, laminating and repair applications by manufacturers of food preparation, processing and packaging equipment, and by manufacturers of catheters, hearing aids, dental products and other biomedical instruments and devices. AA-BOND FDA15 is an effective electrical insulator, and it provides low permeability to gases and vapors and good resistance to water, weather, galvanic action, to petroleum solvents, lubricants and fuels, to mild acids and alkalis, and to many other organic and inorganic compounds. Appearance: Clear Cure Type: Heat cure or Room Temperature Benefits: Low viscosity Effective electrical insulator Low permeability Good resistance Mix Ratio by weight: 100:20/Resin:Hardener Substrates: Most metals, ceramic, glass and plastics Typical Application: Developed for bonding and coating applications. Information provided by Atom Adhesives

Order this product through the following link:

http://www.lookpolymers.com/polymer_Atom-Adhesives-AA-BOND-FDA15-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	uncured
Solids Content	100 %	100 %	reactive, uncured
Volatile Organic Compounds (VOC) Content	3.0 g/l	3.0 g/l	uncured
Viscosity	4500 cP	4500 cP	uncured

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	88	88	
Elongation at Yield	4.0 %	4.0 %	
Shear Strength	13.8 MPa	2000 psi	Lap, Alum to Alum

Thermal Properties	Metric	English	Comments
CTE, linear	55.1 $\mu\text{m}/\text{m}\cdot\text{°C}$	30.6 $\mu\text{in}/\text{in}\cdot\text{°F}$	
Maximum Service Temperature, Air	140 °C	284 °F	
Minimum Service Temperature, Air	-70.0 °C	-94.0 °F	
Glass Transition Temp, Tg	100 °C	212 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+14 ohm-cm	2.00e+14 ohm-cm	

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	16.5 kV/mm	420 kV/in	
Dissipation Factor	0.020 @Frequency 1000 Hz	0.020 @Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	60.0 - 240 min @Temperature 65.0 °C	1.00 - 4.00 hour @Temperature 149 °F	
	1440 min @Temperature 25.0 °C	24.0 hour @Temperature 77.0 °F	
Pot Life	25.0 min	25.0 min	uncured

Descriptive Properties	Value	Comments
Thixotropic Index	1	

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