

Atom Adhesives AA-BOND FDA22 Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

AA-BOND FDA22 is a high 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 (FDA) Chapter 1, Sub Part B, Sections 175.105 and 175.300. AA-BOND FDA22 is two-parts tan adhesive is easily mixed, used and cured at room temperature 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 FDA22 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: Light Tan Cure Type: Heat cure or Room Temperature Benefits: High viscosity Electrical insulator Low permeability Good resistance Easily mixed Mix Ratio by weight: 100:40/Resin:Hardener Substrates: Most metals, ceramic, glass and plastics Typical Application: 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. Information provided by Atom Adhesives

Order this product through the following link:

http://www.lookpolymers.com/polymer_Atom-Adhesives-AA-BOND-FDA22-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	1.44 g/cc	uncured
Viscosity	27000 cP	27000 cP	uncured

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	78	78	cured
Elongation at Yield	5.0 %	5.0 %	cured
Adhesive Bond Strength	14.5 MPa	2100 psi	Lap shear, alum to alum

Thermal Properties	Metric	English	Comments
CTE, linear	47.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	26.1 $\mu\text{in}/\text{in}\cdot\text{°F}$	
Maximum Service Temperature, Air	145 °C	293 °F	
Minimum Service Temperature, Air	-70.0 °C	-94.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.50e+14 ohm-cm	1.50e+14 ohm-cm	
Dielectric Constant	3.5	3.5	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Electrical Properties	Metric	English	Comments
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 - 2160 min @Temperature 25.0 °C	24.0 - 36.0 hour @Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Thixotropic Index	1.2	

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