

## Atom Adhesives AA-BOND FDA2 Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

### Material Notes:

AA-BOND FDA2 is a medium viscosity epoxy resin system specifically developed for medical device applications. It has been tested in accordance with USP biological reactivity tests, in vivo and received Class VI approval. AA-BOND FDA2 is two part amber adhesive used and cured at room temperature for bonding, laminating and repair applications by manufacturers of food preparation, processing and packaging equipment and devices. AA-BOND FDA2 provides low permeability to gases and vapors, and good resistance to water, weather, petroleum solvents, lubricants, to mild acids and alkalis, and to many other organic and inorganic compounds. Appearance: Amber Cure Type: Heat cure or Room Temperature Benefits: Medium viscosity Class VI approved Low permeability Good resistance Easily mixed Mix Ratio by weight: 100:100/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-FDA2-Epoxy-Adhesive.php](http://www.lookpolymers.com/polymer_Atom-Adhesives-AA-BOND-FDA2-Epoxy-Adhesive.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	uncured
Solids Content	100 %	100 %	reactive, uncured
Viscosity	12000 - 16000 cP	12000 - 16000 cP	uncured

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	79	79	
Elongation at Yield	9.0 %	9.0 %	cured
Adhesive Bond Strength	12.4 MPa	1800 psi	Lap shear, alum to alum

Thermal Properties	Metric	English	Comments
CTE, linear	52.9 $\mu\text{m}/\text{m}^{\circ}\text{C}$	29.4 $\mu\text{in}/\text{in}^{\circ}\text{F}$	
Maximum Service Temperature, Air	145 $^{\circ}\text{C}$	293 $^{\circ}\text{F}$	
Minimum Service Temperature, Air	-70.0 $^{\circ}\text{C}$	-94.0 $^{\circ}\text{F}$	
Glass Transition Temp, Tg	54.0 $^{\circ}\text{C}$	129 $^{\circ}\text{F}$	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.20e+14 ohm-cm	1.20e+14 ohm-cm	
Dielectric Constant	3.4	3.4	

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

Processing Properties	Metric	English	Comments
Cure Time	60.0 - 240 min	1.00 - 4.00 hour	
	@Temperature 65.0 °C	@Temperature 149 °F	
	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	45.0 min	45.0 min	uncured

## Contact Songhan Plastic Technology Co.,Ltd.

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