

Atom Adhesives AA-BOND FDA2T Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

AA-BOND FDA2T is a thixotropic 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 FDA2T is an effective electrical insulator, and it provides low permeability to gases and vapors and good resistance to water, weather, lubricants and fuels, to mild acids and alkalis, and many other organic and inorganic compounds. Appearance: Amber Cure Type: Heat cure or Room Temperature Benefits: Medium viscosity Electrically Insulating Low permeability to gases and vapors Low temperature cure Mix Ratio by weight: 100:93/Resin:Hardener Typical Application: Medical, Food preparation processing and packaging Information provided by Atom Adhesives

Order this product through the following link:

http://www.lookpolymers.com/polymer_Atom-Adhesives-AA-BOND-FDA2T-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.119 g/cc	1.119 g/cc	mixed, uncured
Solids Content	100 %	100 %	reactive, uncured
Viscosity	24000 - 26000 cP	24000 - 26000 cP	uncured

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

Thermal Properties	Metric	English	Comments
CTE, linear	52.9 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	29.4 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
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	70.0 $^\circ\text{C}$	158 $^\circ\text{F}$	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.20e+14 ohm-cm	1.20e+14 ohm-cm	
Dielectric Constant	3.4	3.4	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	16.5 kV/mm	420 kV/in	

Electrical Properties	0.020 Metric	0.020 English	Comments
	@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	180 min	180 min	uncured

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