

Atom Adhesives AA-BOND FDA16 Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

AA-BOND FDA16 is a medium viscosity epoxy resin system specifically developed for medical device applications. AA-BOND FDA16 has been tested in accordance with USP biological reactivity tests, in vivo and received Class VI approval. Appearance: Amber Cure Type: Heat cure or Room Temperature Benefits: Medium viscosity Class VI approved Low permeability Good resistance Mix Ratio by weight: 100:33/Resin:Hardener 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-FDA16-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.900 g/cc	0.900 g/cc	cured
Solids Content	100 %	100 %	uncured
Volatile Organic Compounds (VOC) Content	0.15 g/l	0.15 g/l	uncured
Water Absorption at Saturation	0.30 % @Time 86400 sec	0.30 % @Time 24.0 hour	uncured
Viscosity	4700 cP	4700 cP	uncured

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75 @Temperature 25.0 °C, Time 86400 sec	75 @Temperature 77.0 °F, Time 24.0 hour	
	86 @Temperature 65.0 °C, Time 14400 sec	86 @Temperature 149 °F, Time 4.00 hour	
Shear Strength	14.5 MPa @Temperature 25.0 °C, Time 86400 sec	2100 psi @Temperature 77.0 °F, Time 24.0 hour	Lap, Alum to Alum
	22.8 MPa @Temperature 65.0 °C, Time 14400 sec	3300 psi @Temperature 149 °F, Time 4.00 hour	Lap, Alum to Alum

Thermal Properties	Metric	English	Comments
CTE, linear	52.9 µm/m-°C	29.4 µin/in-°F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	145 °C	293 °F	
Minimum Service Temperature, Air	-70.0 °C	-94.0 °F	
Glass Transition Temp, Tg	97.0 °C	207 °F	

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

Processing Properties	Metric	English	Comments
Cure Time	60.0 - 240 min	1.00 - 4.00 hour	
	@Temperature 65.0 °C	@Temperature 149 °F	
	4320 min	72.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	

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