

Tra-Con Tra-Bond FDA2T Food and Drug Application Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND FDA-2T 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. This two-part amber 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.

TRA-BOND FDA-2T 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. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-FDA2T-Food-and-Drug-Application-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	Mixed
Solids Content	100 %	100 %	Reactive Solids Content
Viscosity	26000 cP	26000 cP	Mixed (rv #7, 10 rpm)

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	
Elongation at Yield	9.0 %	9.0 %	
Adhesive Bond Strength	12.4 MPa	1800 psi	Lap shear, alum to alum

Thermal Properties	Metric	English	Comments
CTE, linear	53.0 $\mu\text{m}/\text{m}\cdot\text{C}$	29.4 $\mu\text{in}/\text{in}\cdot\text{F}$	
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
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 $^{\circ}\text{F}$	Ultimate Tg

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	

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 min @Temperature 25.0 °C	24.0 hour @Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Hazy, Amber	
Mix Ratio, parts by weight	100/93	Resin/Hardener
Working Life hours	3	

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