

Tra-Con Tra-Bond FDA12 Food and Drug Application Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND FDA12 is a medium 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, Chapter 1, Sub Part B, Sections 175.105 and 175.300. This two part light yellow 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 FDA12 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. Though not fully cured, significant properties develop after 24 hours at 25°C. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-FDA12-Food-and-Drug-Application-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	Mixed
Solids Content	100 %	100 %	Reactive Solids Content
Water Absorption	0.83 %	0.83 %	After 24 hours
Viscosity	9000 cP @Temperature 25.0 °C	9000 cP @Temperature 77.0 °F	Mixed (sp #4, 3 rpm)

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	82	82	
Elongation at Yield	9.0 %	9.0 %	
Adhesive Bond Strength	24.1 MPa	3500 psi	Lap shear, alum to alum

Thermal Properties	Metric	English	Comments
CTE, linear	53.0 µm/m-°C @Temperature 20.0 °C	29.4 µin/in-°F @Temperature 68.0 °F	
Maximum Service Temperature, Air	145 °C	293 °F	
Minimum Service Temperature, Air	-70.0 °C	-94.0 °F	
Glass Transition Temp, Tg	57.0 °C	135 °F	Ultimate Tg

Electrical Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Dielectric Constant	3.4	3.4	
	@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 - 120 min	1.00 - 2.00 hour	
	@Temperature 65.0 °C	@Temperature 149 °F	
	4320 min	72.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	50 min	50 min	25 grams

Descriptive Properties	Value	Comments
Color	Light Yellow	
Mix Ratio, parts by weight	100/100	Resin/Hardener
Thixotropic Index	1	3 rpm/30 rpm
Working Life hours	4	25 grams

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