

Tra-Con Tra-Bond FDA2YL02 Food and Drug Application Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND FDA-2 YL02 is a medium viscosity epoxy resin system specifically developed for adhesive and coating applications in accordance with Title 21, U.S. Code of Federal Regulations, Food and Drug Administration (FDA) Chapter 1, Sub Part B, Sections 175.105 and 175.300. This two-part opaque yellow adhesive is easily mixed and cured at room temperature. It is used for bonding, laminating and repairing food preparation, processing, packaging equipment, and biomedical applications such as catheters, hearing aids, dental products and other instruments and devices. TRA-BOND FDA-2 YL02 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-FDA2YL02-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
Viscosity	10000 cP @Temperature 25.0 °C	10000 cP @Temperature 77.0 °F	After mixing

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 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	29.4 $\mu\text{in}/\text{in}\cdot\text{°F}$ @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	54.0 °C	129 °F	Ultimate Tg

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

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

Processing Properties	Metric	English	Comments
Cure Time	60.0 - 240 min	1.00 - 4.00 hour	
	@Temperature 65.0 °C	@Temperature 149 °F	
Pot Life	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	180 min	180 min	

Descriptive Properties	Value	Comments
Color	Yellow	
Mix Ratio, parts by weight	100/100	Resin/Hardener
Thixotropic Index	1	5 rpm/50 rpm
Working Life hours	6.5	

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