

## Tra-Con Tra-Bond FDA15 Food and Drug Application Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

### Material Notes:

TRA-BOND FDA-15 is a low 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 adhesive is used 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-15 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-FDA15-Food-and-Drug-Application-Epoxy-Adhesive.php](http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-FDA15-Food-and-Drug-Application-Epoxy-Adhesive.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	Mixed
Solids Content	100 %	100 %	Reactive Solids Content
Volatile Organic Compounds (VOC) Content	3.0 g/l	3.0 g/l	
Water Absorption	0.23 %	0.23 %	After 24 hours
Viscosity	4500 cP @Temperature 25.0 °C	4500 cP @Temperature 77.0 °F	After mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	89	89	
Elongation at Yield	4.0 %	4.0 %	
Adhesive Bond Strength	14.5 MPa	2100 psi	Lap shear, alum to alum, 4 hrs @ 65°C

Thermal Properties	Metric	English	Comments
CTE, linear	55.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	30.6 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 °F	
Maximum Service Temperature, Air	140 °C	284 °F	
Minimum Service Temperature, Air	-70.0 °C	-94.0 °F	
Glass Transition Temp, Tg	100 °C	212 °F	Ultimate Tg

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+14 ohm-cm	2.00e+14 ohm-cm	
Dielectric Constant	4.3 @Frequency 1000 Hz	4.3 @Frequency 1000 Hz	
Dielectric Strength	16.5 kV/mm	420 kV/in	
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	
Pot Life	25 min	25 min	

Descriptive Properties	Value	Comments
Color	Clear	
Mix Ratio, parts by weight	100/20	Resin/Hardener
Thixotropic Index	1	

## Contact Songhan Plastic Technology Co.,Ltd.

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