

## Tra-Con Tra-Bond FDA25 Food and Drug Application Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

### Material Notes:

TRA-BOND FDA-25 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 adhesive is commonly 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-25 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-FDA25-Food-and-Drug-Application-Epoxy-Adhesive.php](http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-FDA25-Food-and-Drug-Application-Epoxy-Adhesive.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	Mixed
Volatile Organic Compounds (VOC) Content	7.12 g/l	7.12 g/l	
Water Absorption	0.16 %	0.16 %	After 24 hours
Viscosity	28500 cP @Temperature 25.0 °C	28500 cP @Temperature 77.0 °F	Mixed (rv #6, 10 rpm)

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	82	82	
Adhesive Bond Strength	16.5 MPa	2400 psi	Lap shear, alum to alum, 1 hr @ 65°C
	18.3 MPa	2650 psi	Lap shear, alum to alum, 4 hrs @ 65°C

Thermal Properties	Metric	English	Comments
CTE, linear	89.9 $\mu\text{m}/\text{m}\cdot\text{°C}$	49.9 $\mu\text{in}/\text{in}\cdot\text{°F}$	Below Tg
	218 $\mu\text{m}/\text{m}\cdot\text{°C}$	121 $\mu\text{in}/\text{in}\cdot\text{°F}$	Above Tg
Maximum Service Temperature, Air	140 °C	284 °F	
Minimum Service Temperature, Air	-70.0 °C	-94.0 °F	
Glass Transition Temp, Tg	125 °C	257 °F	Ultimate Tg

Processing Properties	Metric	English	Comments
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Processing Properties	60.0 - 240 min Metric	1.00 - 4.00 hour English	Comments
	@Temperature 65.0 °C	@Temperature 149 °F	
	4320 min	72.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	25 min	25 min	100 grams
	30 min	30 min	25 grams

Descriptive Properties	Value	Comments
Color	Black	
Mix Ratio, parts by weight	100/23	Resin/Hardener
Thixotropic Index	2	5 rpm/50 rpm

## Contact Songhan Plastic Technology Co.,Ltd.

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