

## Tra-Con Tra-Bond FDA16 Food and Drug Application Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

### Material Notes:

TRA-BOND FDA-16 EPOXY ADHESIVE is a medium viscosity 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 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-16 EPOXY ADHESIVE 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 @ 25°C. Information provided by Tra-Con Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Tra-Con-Tra-Bond-FDA16-Food-and-Drug-Application-Epoxy-Adhesive.php](http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-FDA16-Food-and-Drug-Application-Epoxy-Adhesive.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.900 g/cc	0.900 g/cc	Mixed
Solids Content	100 %	100 %	Reactive Solids Content
Volatile Organic Compounds (VOC) Content	0.15 g/l	0.15 g/l	
Water Absorption	0.30 %	0.30 %	After 24 hours
Viscosity	4700 cP @Temperature 25.0 °C	4700 cP @Temperature 77.0 °F	Mixed (sp #4, 12 rpm)

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75	75	24 hrs @ 25°C
	86	86	4 hrs @ 65°C
Adhesive Bond Strength	13.8 MPa	2000 psi	Lap shear, alum to alum, 24 hrs @ 25°C
	23.4 MPa	3400 psi	Lap shear, alum to alum, 4 hrs @ 65°C

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			Ultimate Tg

Thermal Properties	97.0 °C Metric	207 °F English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	1.20e+14 ohm-cm	1.20e+14 ohm-cm	

Processing Properties	Metric	English	Comments
Cure Time	60.0 - 240 min	1.00 - 4.00 hour	
	@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	25 grams

Descriptive Properties	Value	Comments
Color	Amber	
Mix Ratio, parts by weight	100/33	Resin/Hardener

## Contact Songhan Plastic Technology Co.,Ltd.

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