

## Tra-Con Tra-Bond FS227 Thixotropic Epoxy/Polyamide Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy , Filled/Reinforced Thermoset

### Material Notes:

TRA-BOND FS227 is a thixotropic (thick paste) polymer epoxy/polyamide system developed for industrial adhesive and sealing applications where the combination of high fill, easy handling, good wetting, toughness, and superior mechanical properties are required. This easy-to-use, amber colored epoxy adhesive system has a moderate pot life and a low exotherm. It cures at room temperature, and develops strong bonds to most material surfaces, including many metals, rigid plastics, glass, ceramics, leather, rubber, wood and concrete. Fully cured TRA-BOND FS227 is a tough, resilient adhesive with good low temperature electrical, mechanical and impact resistant properties, superior thermal shock resistance, low permeability to gases and vapors, good dimensional stability and outstanding resistance to water, weather, oxygen and ozone, most petroleum products, mild acids and alkalis, and many other chemicals. Information provided by Tra-Con Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Tra-Con-Tra-Bond-FS227-Thixotropic-EpoxyPolyamide-Adhesive.php](http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-FS227-Thixotropic-EpoxyPolyamide-Adhesive.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	Mixed
Viscosity	600 cP @Temperature 25.0 °C	600 cP @Temperature 77.0 °F	After mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75	75	
Tensile Strength, Yield	37.2 MPa	5400 psi	
Elongation at Yield	10 %	10 %	
Adhesive Bond Strength	17.2 MPa	2500 psi	Lap shear, alum to alum, 1 hr @ 100°C

Thermal Properties	Metric	English	Comments
CTE, linear	64.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	35.6 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 °F	
Maximum Service Temperature, Air	110 °C	230 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	
Glass Transition Temp, Tg	70.0 °C	158 °F	Ultimate Tg

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

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	18.1 kV/mm	460 kV/in	
Dissipation Factor	0.010	0.010	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	240 min	4.00 hour	
	@Temperature 65.0 °C	@Temperature 149 °F	
	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	75 min	75 min	

Descriptive Properties	Value	Comments
Color	Amber	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China