

Tra-Con Tra-Bond FS437 Low Viscosity High Impact Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND FS437 is a two-part, low viscosity material formulated for optical applications which require excellent wicking, visible color and high strength. This material has been used successfully for fiber optic connector assembly and is recommended for laminating, bonding, and sealing applications. This two-part adhesive is easily mixed and cured at room temperature and develops strong, tough bonds to glass and glass fibers, ceramics, many metals, and most rigid plastics. TRA-BOND FS437 offers resistance to mechanical impact and thermal shock, and is resistant to weather, water, gases and vapors, petroleum products, salts, and mild acids and alkalis. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-FS437-Low-Viscosity-High-Impact-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	Mixed
Water Absorption	0.40 %	0.40 %	72 hrs @ 25°C
Viscosity	350 cP @Temperature 25.0 °C	350 cP @Temperature 77.0 °F	Mixed (sp #2, 10 rpm)

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	

Thermal Properties	Metric	English	Comments
CTE, linear	72.5 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	40.3 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	Below Tg
	195 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	108 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	Above Tg
Glass Transition Temp, Tg	60.0 °C	140 °F	Ultimate Tg
Shrinkage	1.72 % @Temperature 65.0 °C, Time 7200 sec	1.72 % @Temperature 149 °F, Time 2.00 hour	Linear
	5.08 % @Temperature 65.0 °C, Time 7200 sec	5.08 % @Temperature 149 °F, Time 2.00 hour	Volume

Processing Properties	Metric	English	Comments
Cure Time	7.00 min @Temperature 125 °C	0.117 hour @Temperature 257 °F	

Processing Properties	60.0 - 240 min Metric	1.00 - 4.00 hour English	Comments
	@Temperature 65.0 °C	@Temperature 149 °F	
	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	60 min	60 min	25 grams

Descriptive Properties	Value	Comments
Color	Orange	
Mix Ratio, parts by weight	100/30	Resin/Hardener
Working Life hours	1	100 grams

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