

Tra-Con Tra-Bond F125 Fast Gel Clear Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND F125 is a 10 minute gelling epoxy recommended for use in fiber optic connectors, optical and industrial bonding applications. This clear, two part system is easily mixed and used at room temperature. Fiber optic connectors can be polished in as little as 15 to 20 minutes for piston free assurance. The high bond strength of TRA-BOND F125 to glass, plastics, ceramics, metals and masonry allows it to be used in a wide array of applications including lens bonding, connector backfills, construction, component assembly and maintenance repair. This low shrinkage epoxy can be supplied in 1 gram MINIPAX, 2 gram and larger BIPAX kits and 50 cc TRA-PAX dual barrel cartridges. TRA-BOND F125 develops significant properties 1 hour after mixing. However, an extended cure of 4-6 hours at 25°C is required for fully matured bonds. NOTE: TRA-BOND F125 develops a high exotherm. Use immediately after mixing. The exothermic reaction begins within 2 minutes after initiating the mixing step, so have everything ready before removing the BIPAX clamp. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-F125-Fast-Gel-Clear-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	Mixed
Solids Content	100 %	100 %	Reactive Solids Content
Viscosity	9000 cP	9000 cP	Resin
	14000 cP	14000 cP	Hardener

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	76	76	
Adhesive Bond Strength	20.0 MPa	2900 psi	Lap shear, alum to alum

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	33.3 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	115 °C	239 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	
Glass Transition Temp, Tg	40.0 °C	104 °F	Ultimate Tg

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	clear; thickness not quantified

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.00e+11 ohm-cm	5.00e+11 ohm-cm	
Dielectric Constant	4.8 @Frequency 1000 Hz	4.8 @Frequency 1000 Hz	
Dielectric Strength	16.1 kV/mm	410 kV/in	

Processing Properties	Metric	English	Comments
Cure Time	60.0 min @Temperature 65.0 °C	1.00 hour @Temperature 149 °F	
	1440 min @Temperature 25.0 °C	24.0 hour @Temperature 77.0 °F	
Pot Life	5.0 min	5.0 min	

Descriptive Properties	Value	Comments
Color	Transparent, Clear	
Mix Ratio, parts by weight	100/93	Resin/Hardener
Thixotropic Index	1	

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