

Tra-Con Tra-Bond F109CLR Fiber Optic Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND F109CLR is a clear, low viscosity epoxy specially designed for terminating plastic fibers. This blush free epoxy is an excellent choice for high humidity environments where absolute clarity is essential. This two-part system remains at a constant viscosity for a minimum of 50 minutes. This allows more connectors to be produced from a single lot. It is a very high strength adhesive that will not distort plastic fibers. TRA-BOND F109CLR can be cured at room temperature overnight or as fast as 20 minutes at 65°C. This 100% solid system can be used for small potting and sealing applications where thermal shock and impact resistance are required. Fully cured TRA-BOND F109CLR provides excellent resistance to salt solutions, mild acids, alkalis and many other chemicals including petroleum solvents and alcohol. TRA-BOND F109CLR can be supplied in a wide variety of packages including 2 gram (or large) BIPAX kits, pre-mixed and frozen syringes and 1 gram MINPAX. Sufficient cure is developed for polishing connectors in 20 minutes at 65°C. TRA-BOND F109CLR will complete its cure at room temperature with no pistoning. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-F109CLR-Fiber-Optic-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	Mixed
Viscosity	300 cP @Temperature 25.0 °C	300 cP @Temperature 77.0 °F	After mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	
Adhesive Bond Strength	20.7 MPa	3000 psi	Lap shear, alum to alum
Izod Impact, Notched	0.117 J/cm	0.220 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	33.3 $\mu\text{in}/\text{in}\cdot\text{°F}$ @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	60.0 °C	140 °F	Ultimate Tg

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+11 ohm-cm	1.00e+11 ohm-cm	

Electrical Properties	Metric	English	Comments
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	16.9 kV/mm	430 kV/in	

Processing Properties	Metric	English	Comments
Cure Time	15.0 min	0.250 hour	1 drop applications
	@Temperature 90.0 °C	@Temperature 194 °F	
	60.0 min	1.00 hour	
	@Temperature 65.0 °C	@Temperature 149 °F	
Pot Life	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	20 min	20 min	2 grams
	25 min	25 min	25 grams

Descriptive Properties	Value	Comments
Color	Clear	
Mix Ratio, parts by weight	100/50	Resin/Hardener
Thixotropic Index	1	
Working Life hours	1	2 grams
Working Life minutes	30	25 grams

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