

Tra-Con Tra-Bond F118CLR Fiber Optic Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND F118CLR is an impact resistant, fiber-optic adhesive designed for use in any optical connector. This two-part epoxy remains at a constant viscosity for a minimum of 30 minutes. This allows more connectors to be produced from one mix. Low stress, TRA-BOND F118CLR is an excellent choice for multi and single mode connectors where excessive curing temperatures may cause cracking. It can be cured at room temperature overnight or as fast as 15 minutes at 65°C. The clear color facilitates easy polishing and its cured properties prevent pistoning. This 100% solid system can be used for small potting and sealing applications where resistance to thermal shock and impact are required. This system can be supplied in many different packages including 2 gram (or larger) BIPAX kits, pre-mixed and frozen syringes or 1 gram MINIPAX. Variations on viscosity (or other properties) are available upon request. Longer cures may be required for development of full mechanical properties in potting or sealing applications. Sufficient cure is developed for polishing connectors in 15 minutes at 65°C. TRA-BOND F118CLR 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-F118CLR-Fiber-Optic-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	Mixed
Viscosity	65000 cP @Temperature 25.0 °C	65000 cP @Temperature 77.0 °F	After mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	82	82	
Adhesive Bond Strength	23.4 MPa	3400 psi	Lap shear, alum to alum
Izod Impact, Notched	0.117 J/cm	0.220 ft-lb/in	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	130 °C	266 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	
Glass Transition Temp, Tg	105 °C	221 °F	Ultimate Tg

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

Processing Properties	Metric	English	Comments
	15.0 min	0.250 hour	

Cure Time Processing Properties	Metric @ Temperature 90.0 °C	English @ Temperature 194 °F	1 drop applications Comments
	60.0 min	1.00 hour	
	@Temperature 65.0 °C	@Temperature 149 °F	
	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	30 min	30 min	

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

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