

Tra-Con Tra-Bond F113SC BLK High Tg Fiber Optic Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND F113SC BLK is a fiber optic adhesive used for terminating ALL types of fiber optic connectors as well as LED displays, lenses and other optical components. It produces a typical Tg of 95°C thus meeting specification requirements of BELLCORE and connector manufacturers. This two-part, low viscosity system can be cured at room temperature overnight or as fast as 8 minutes at 90°C. Its black color allows for easy polishing. TRA-BOND F113SC BLK has a useable WORKING LIFE in FIBER OPTIC applications of 20 minutes. It is also excellent for small potting and sealing applications where the WORKING LIFE is 2 hours. This 100% solid system has excellent resistance to impact and thermal shock. F113SC BLK is supplied in 2 gram (or larger) BIPAX kits, PRE-MIXED and FROZEN syringes or 1 gram MINIPAX. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-F113SC-BLK-High-Tg-Fiber-Optic-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	Mixed
Viscosity	2200 cP @Temperature 25.0 °C	2200 cP @Temperature 77.0 °F	Mixed (rv #4, 20 rpm)

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	
Adhesive Bond Strength	25.5 MPa	3700 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	120 °C	248 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	
Glass Transition Temp, Tg	95.0 °C	203 °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
Cure Time	15.0 min @Temperature 90.0 °C	0.250 hour @Temperature 194 °F	

Processing Properties	60.0 min Metric	1.00 hour English	Comments
	@Temperature 65.0 °C	@Temperature 149 °F	
	1080 min	18.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	30 min	30 min	25 grams

Descriptive Properties	Value	Comments
Color	Black	
Mix Ratio, parts by weight	100/28	Resin/Hardener
Thixotropic Index	1	5 rpm/50 rpm

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