

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

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND F113SC is a room temperature curing, high Tg and low viscosity adhesive formulated for terminating ALL TYPES of fiber optic connectors. It has also been used for bonding LED displays, lenses and other optical components. TRA-BOND F113SC provides both high bond strength as well as low stress connections with no pistoning. This two part system can be cured overnight at room temperature or as quickly as 15 minutes at 90°C and is provided in a dark blue color to allow for easy polishing. Sufficient cure is developed for polishing connectors in 15 minutes at 65°C, when higher cure temperatures are possible. TRA-BOND F113SC 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-F113SC-High-Tg-Fiber-Optic-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	Mixed
Volatile Organic Compounds (VOC) Content	1.91 g/l	1.91 g/l	
Water Absorption	0.98 %	0.98 %	
Viscosity	1800 cP @Temperature 25.0 °C	1800 cP @Temperature 77.0 °F	After mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	83	83	
Adhesive Bond Strength	18.6 MPa	2700 psi	Lap shear, alum to alum, 24 hrs @ 25°C
	26.9 MPa	3900 psi	Lap shear, alum to alum, 1 hr @ 65°C

Thermal Properties	Metric	English	Comments
CTE, linear	75.7 µm/m-°C	42.1 µin/in-°F	Below Tg
	191 µm/m-°C	106 µin/in-°F	Above Tg
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

Optical Properties	Metric	English	Comments
Refractive Index	1.52	1.52	

Optical Properties	Metric	English	Comments
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	
	1080 min	18.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	35 min	35 min	25 grams

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

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