

Tra-Con Tra-Bond F120 Fast Cure Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND F120 is a two-part, medium viscosity adhesive developed for high performance fiber optic and optical bonding applications. It is easily mixed and gels within minutes at room temperature for structural bonding applications where the combination of FAST CURE coupled with low shrinkage, good electrical insulation, and excellent mechanical properties is required. TRA-BOND F120 is solvent "free" and is recommended for bonding fiber optic, optical and laser industry specified materials including DuPont PIFAX plastic core or glass cables, single or multichannel terminations and connectors, and many other plastic or metals components. Successful applications include lens mounts, connector backfills, component assembly seals, and printed circuit board repairs. This adhesive provides outstanding chemical resistance to a variety of ambient gases, solvents and solutions. TRA-BOND F120 develops significant properties 1 hour after mixing. However, an extended cure of 4-6 hours @ 25°C is required for fully matured bonds. NOTE: TRA-BOND F120 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 BIPAX clamp. NOTE: TRA-BOND F120 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 BIPAX clamp. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-F120-Fast-Cure-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	Mixed
Solids Content	100 %	100 %	Reactive Solids Content
Viscosity	14000 cP	14000 cP	Resin
	35000 cP	35000 cP	Hardener

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	72	72	
Izod Impact, Notched	1.01 J/cm	1.90 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	33.3 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Maximum Service Temperature, Air	115 $^{\circ}\text{C}$	239 $^{\circ}\text{F}$	
Minimum Service Temperature, Air	-60.0 $^{\circ}\text{C}$	-76.0 $^{\circ}\text{F}$	

Electrical Properties	Metric	English	Comments
-----------------------	--------	---------	----------

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	15.7 kV/mm	400 kV/in	

Processing Properties	Metric	English	Comments
Cure Time	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	5.0 min	5.0 min	

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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China