

Tra-Con Tra-Bond FS482 Long Pot Life High Tg Fiber Optic Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND FS-482 is a dark blue, low viscosity epoxy adhesive developed for fiber-optic bonding and small volume potting of plastic or glass optical fibers, lenses and prisms, LED displays, and other optical components. It is recommended for laminating, bonding, and sealing applications using biconic and other F/O connectors where excellent wetting, long pot life and improved impact strength properties are required. This two-part epoxy adhesive is easily mixed at room temperature, remains at less than 3,000 cps at 25°C (maximum) for 40 minutes (minimum) and develops strong, tough bonds to glass and glass fibers, ceramics, many metals, and most rigid plastics. TRA-BOND FS-482 offers good mechanical impact and thermal shock resistance, and is also resistant to weather, water, gases and vapors, petroleum products, salts, and mild acids and alkalis. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-FS482-Long-Pot-Life-High-Tg-Fiber-Optic-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	2250 cP	2250 cP	Mixed

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	
Izod Impact, Notched	1.17 J/cm	2.20 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	55.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	30.6 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	100 °C	212 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	9.00e+8 ohm-cm	9.00e+8 ohm-cm	
Dielectric Constant	4.8	4.8	
Dielectric Strength	16.9 kV/mm	430 kV/in	

Processing Properties	Metric	English	Comments
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Processing Properties	60.0 - 240 min Metric	1.00 - 4.00 hour English	Comments
	@Temperature 65.0 °C	@Temperature 149 °F	
Pot Life	45 min	45 min	

Descriptive Properties	Value	Comments
Color	Dark Blue	
Mix Ratio, parts by weight	100/30	Resin/Hardener

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