

Tra-Con Tra-Bond F123NC High Temperature Fiber Optic Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND F123 NC is a fast cure, low viscosity, two-component epoxy formulation for bonding fiber optic bundles, potting glass fibers, and/or terminating single or multi-channel fiber optic connectors. This formulation is a clear/amber color that changes to a reddish-amber after the REQUIRED 100°C HIGH-TEMPERATURE CURE. It exhibits good wicking and develops strong, tough, mechanically stable bonds to a wide variety of fiber optic and optical materials that includes most metals, ceramics, glass and many plastics. TRA-BOND F123 NC has good impact and thermal shock resistance, and yields excellent low stress, pot-and-polish connections which do not piston during cycle tests. It is also resistant to water and weathering, vapors and gases, most petroleum products, and an extended range of organic and inorganic environments. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-F123NC-High-Temperature-Fiber-Optic-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	Mixed
Solids Content	100 %	100 %	Reactive Solids Content
Viscosity	2000 cP @Temperature 25.0 °C	2000 cP @Temperature 77.0 °F	After mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	87	87	
Adhesive Bond Strength	20.0 MPa	2900 psi	Lap shear, alum to alum

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	175 °C	347 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	
Glass Transition Temp, Tg	120 °C	248 °F	Ultimate Tg

Optical Properties	Metric	English	Comments
Refractive Index	1.56	1.56	
Transmission, Visible	93 %	93 %	6000-9000 Å

Electrical Properties	Metric	English	Comments
Dielectric Strength	15.7 kV/mm	400 kV/in	

Descriptive Properties	Value	Comments
Color	Amber	
Mix Ratio, parts by weight	100/10	Resin/Hardener
Thixotropic Index	1	

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