

Tra-Con Tra-Bond FS443 Color Keyed Thixotropic Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND FS443 is a fast cure, high viscosity, two-component epoxy formulation that signals both proper mixing and curing when bonding fiber optic bundles, potting glass fibers, and/or terminating single or multi-channel fiber optic connectors. Although this unique three-step color-change formulation unmixed components are light yellow, it turns light green on mixing, and changes again to a deep reddish-amber after the REQUIRED 100°C HIGH-TEMPERATURE CURE. It 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 FS443 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-FS443-Color-Keyed-Thixotropic-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	120000 cP @Temperature 25.0 °C	120000 cP @Temperature 77.0 °F	Mixed (sp #4, 0.3 rpm)

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	90	90	15 min @ 100°C
Adhesive Bond Strength	17.2 MPa	2500 psi	Lap shear, alum to alum, 15 min @ 100°C

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	115 °C	239 °F	Ultimate Tg

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

Processing Properties	Metric	English	Comments
Cure Time	15.0 min	0.250 hour	

Processing Properties	@Temperature 100 °C Metric	@Temperature 212 °F English	Comments
Pot Life	300 min	300 min	

Descriptive Properties	Value	Comments
Color	Red-Brown	Cured

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