

Tra-Con Tra-Bond F253HV Color Keyed High Temperature Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND F253HV is a clear, high temperature, two-part epoxy formulation that changes colors during the curing process to indicate cure status. The unmixed components are light yellow; the mixture is green/blue; and the fully cured adhesive is reddish-amber. 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. In addition, TRA-BOND F253HV has good impact and thermal shock resistance, demonstrates low stress, and yields excellent pot and polish connections. It also is resistant to water and weathering, vapors and gases, most petroleum products, and an extended range of organic and inorganic environments. An additional post-cure of 30 minutes at 150°C is recommended when application temperatures higher than 150°C are anticipated. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-F253HV-Color-Keyed-High-Temperature-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	60000 cP @Temperature 25.0 °C	60000 cP @Temperature 77.0 °F	After mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	

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	110 °C	230 °F	Ultimate Tg

Processing Properties	Metric	English	Comments
Cure Time	5.00 min @Temperature 150 °C	0.0833 hour @Temperature 302 °F	
	10.0 min @Temperature 125 °C	0.167 hour @Temperature 257 °F	
	15.0 min @Temperature 100 °C	0.250 hour @Temperature 212 °F	

Pot Life Processing Properties	120 min Metric	120 min English	Comments
Descriptive Properties			
Color	Green Blue		Mixed
	Light Yellow		Unmixed
	Reddish-Amber		Cured
Mix Ratio, parts by weight	100/10		Resin/Hardener
Thixotropic Index	4		5 rpm/50 rpm

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