

Tra-Con Tra-Bond F253M Color Keyed High Temperature Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND F253M is a low viscosity, high temperature, two-part epoxy formulation that changes color 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 is specially designed to meet strict low moisture absorption requirements and exhibits minimal fiber creep. It exhibits excellent 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. In addition, TRA-BOND F253M has good impact and thermal shock resistance, demonstrates low stress, and yields excellent pot and polish connections. 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-F253M-Color-Keyed-High-Temperature-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	Cured
Viscosity	2100 cP	2100 cP	After mixing
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	89	89	
Adhesive Bond Strength	13.8 MPa	2000 psi	Lap shear, alum to alum, 1 hr @ 120°C

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 µm/m-°C	38.9 µin/in-°F	TMA
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Glass Transition Temp, Tg	115 °C	239 °F	Ultimate Tg, 10°C/min; DSC

Processing Properties	Metric	English	Comments
Cure Time	1.00 min	0.0167 hour	
	@Temperature 150 °C	@Temperature 302 °F	
	5.00 min	0.0833 hour	
	@Temperature 125 °C	@Temperature 257 °F	
	15.0 min	0.250 hour	
	@Temperature 100 °C	@Temperature 212 °F	

Pot Life Processing Properties	120 min Metric	120 min English	2X initial viscosity Comments
Descriptive Properties	Value		Comments
Color	Green Blue		Mixed
	Light Yellow		Unmixed
	Reddish-Amber		Cured
Mix Ratio, parts by weight	100/8		Resin/Hardener
Thixotropic Index	1		
Working Life hours	2		25 grams

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