

Tra-Con Tra-Bond F211 General Purpose Fiber Optic Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND F211 is a general purpose fiber optic epoxy adhesive recommended for bonding and small volume potting applications where superior wetting and physical properties are needed at both high and low temperatures. This two component adhesive contains no solvents, has a long pot life at room temperature and develops strong, tough bonds (after a short cure at high temperatures) for a wide range of materials that includes glass fibers, ceramics, most metals and many plastics, Fully cured TRA-BOND F211 develops a dark amber color which provides a ready visual indication of wicking. It has excellent impact and thermal shock resistance, low permeability to gases and vapors, and is resistant to wet or dry autoclave cycles. 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-F211-General-Purpose-Fiber-Optic-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	Mixed
Viscosity	9800 cP @Temperature 25.0 °C	9800 cP @Temperature 77.0 °F	After mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	88	88	
Izod Impact, Notched	0.267 J/cm	0.500 ft-lb/in	

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	150 °C	302 °F	Ultimate Tg

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.50e+15 ohm-cm	2.50e+15 ohm-cm	
Dielectric Constant	4.2 @Frequency 1000 Hz	4.2 @Frequency 1000 Hz	
Dielectric Strength	14.8 kV/mm	375 kV/in	
Dissipation Factor	0.020 @Frequency 1000 Hz	0.020 @Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	30.0 min	0.500 hour	
	@Temperature 150 °C	@Temperature 302 °F	
	60.0 min	1.00 hour	
	@Temperature 125 °C	@Temperature 257 °F	
	180 min	3.00 hour	
	@Temperature 100 °C	@Temperature 212 °F	
Pot Life	300 min	300 min	

Descriptive Properties	Value	Comments
Color	Amber	
Heat Distortion Temperature °C	148	
Mix Ratio, parts by weight	100/20	Resin/Hardener
Outgassing, NASA	Passes	

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