

Tra-Con Tra-Bond 293-1M General Purpose Instrument Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND 293-1M general purpose epoxy adhesive is designed to provide strong, resilient bonds to a variety of difficult-to-bond substrates, such as gold, nickel, silver, copper and brass. The 293-series of adhesives cures at moderate temperatures ranging from 60°C to 120°C. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-293-1M-General-Purpose-Instrument-Epoxy-Adhesive.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	
Adhesive Bond Strength	26.2 MPa	3800 psi	Lap shear, silver to silver
	27.6 MPa	4000 psi	Lap shear, gold to gold
	27.6 MPa	4000 psi	Lap shear, brass to brass
	37.9 MPa	5500 psi	Lap shear, alum to alum

Thermal Properties	Metric	English	Comments
CTE, linear	75.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	41.7 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	Below Tg
	150 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	83.3 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	Above Tg
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft ² -°F	
	@Temperature 121 °C	@Temperature 250 °F	
Glass Transition Temp, Tg	98.0 °C	208 °F	Ultimate Tg

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.20e+14 ohm-cm	3.20e+14 ohm-cm	
Dielectric Constant	4.0	4.0	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	35.4 kV/mm	900 kV/in	
Dissipation Factor	0.015	0.015	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
	45.0 min	0.750 hour	

Cure Time Processing Properties	Metric @ Temperature 120 °C	English @ Temperature 248 °F	Comments
	90.0 min	1.50 hour	
	@Temperature 95.0 °C	@Temperature 203 °F	
	240 min	4.00 hour	
	@Temperature 75.0 °C	@Temperature 167 °F	
	1440 min	24.0 hour	
	@Temperature 60.0 °C	@Temperature 140 °F	
Shelf Life	12.0 Month	12.0 Month	In Kits
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	12.0 Month	12.0 Month	PMF
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Descriptive Properties	Value	Comments
Color	Black	
Working Life hours	8	

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