

Tra-Con Tra-Bond 77-2LTC Low Temperature Cure SMD Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND 77-2LTC one component, solvent-free, insulative epoxy adhesive is designed to cure at temperatures as low as 80°C. This adhesive is specifically designed for attaching surface mounted devices (SMDs) to printed circuit boards prior to wave solder. TRA-BOND 77-2LTC adhesive exhibits superior application features. Its soft, smooth consistency permits application through fine diameter needles. It exhibits no tailing or sagging. Small, uniform dots may be dispensed for capacitor and resistor attach. To satisfy the seated heights of SOT devices, narrow peaks or multiple dots may be used. TRA-BOND 77-2LTC adhesive is also ideally suited for application by screening or pin transfer. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-77-2LTC-Low-Temperature-Cure-SMD-Adhesive.php

Physical Properties	Metric	English	Comments
Viscosity	33000 cP	33000 cP	Mixed

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	90	90	
Adhesive Bond Strength	15.9 MPa	2300 psi	Lap shear, alum to alum

Thermal Properties	Metric	English	Comments
CTE, linear	44.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	24.4 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	Below Tg
	86.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	47.8 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	Above Tg
Thermal Conductivity	0.500 W/m-K @Temperature 121 °C	3.47 BTU-in/hr-ft ² -°F @Temperature 250 °F	
Glass Transition Temp, Tg	80.0 °C	176 °F	Ultimate Tg

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.50e+14 ohm-cm	2.50e+14 ohm-cm	
Dielectric Constant	4.2	4.2	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.0080	0.0080	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Chemical Properties	Metric	English	Comments
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Ionic Impurities - Na (Sodium) Chemical Properties	5.0 ppm Metric	5.0 ppm English	Comments
Ionic Impurities - K (Potassium)	5.0 ppm	5.0 ppm	
Ionic Impurities - Cl (Chloride)	30 ppm	30 ppm	

Processing Properties	Metric	English	Comments
Cure Time	5.00 min	0.0833 hour	
	@Temperature 150 °C	@Temperature 302 °F	
	10.0 min	0.167 hour	
	@Temperature 125 °C	@Temperature 257 °F	
	15.0 min	0.250 hour	
	@Temperature 100 °C	@Temperature 212 °F	
	30.0 min	0.500 hour	
	@Temperature 80.0 °C	@Temperature 176 °F	
Shelf Life	12.0 Month	12.0 Month	
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Descriptive Properties	Value	Comments
Device Shear grams	2000	Thick Film Resistors
Outgassing, NASA	Passes	
Weight Loss %	0.24	At 300°C
Working Life days	3	At 25°C

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