

Tra-Con Tra-Bond 77-1S One Component SMD Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND 77-1S one component, solvent-free, insulating epoxy adhesive is designed specifically for attaching surface mounted devices (SMDs) to printed circuit boards prior to wave solder. TRA-BOND 77-1S adhesive exhibits outstanding moisture resistance, eliminating concern about significant electrical leakage after long-term exposure to high humidity conditions. This adhesive withstands 1000 hours at 100°C and 95% relative humidity testing with only a slight drop in insulation resistance. In addition, TRA-BOND 77-1S adhesive exhibits superior application features. Its soft, smooth consistency permits application through fine diameter needles. This adhesive 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 77-1S 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-77-1S-One-Component-SMD-Adhesive.php

Physical Properties	Metric	English	Comments
Viscosity	47000 cP	47000 cP	Mixed

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	94	94	
Adhesive Bond Strength	16.5 MPa	2400 psi	Lap shear, alum to alum

Thermal Properties	Metric	English	Comments
CTE, linear	55.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	30.6 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	Below Tg
	100 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	55.6 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	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	200 °C	392 °F	Ultimate Tg

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.30e+12 ohm-cm	1.30e+12 ohm-cm	
Dielectric Constant	4.6	4.6	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.017	0.017	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	0.167 min	0.00278 hour	
	@Temperature 200 °C	@Temperature 392 °F	
	2.00 min	0.0333 hour	
	@Temperature 175 °C	@Temperature 347 °F	
	3.00 min	0.0500 hour	
	@Temperature 150 °C	@Temperature 302 °F	
Shelf Life	3.00 Month	3.00 Month	At 5°C
	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
Weight Loss %	0.33	At 250°C
Working Life months	3	At 25°C

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