

## Tra-Con Tra-Bond 789-3 Moisture Resistant Adhesive

Category : Polymer , Adhesive , Thermoset

**Material Notes:**

TRA-BOND 789-3 one component, high strength toughened adhesive is designed for microelectronic applications, including substrate attach and package sealing, which require good moisture resistance. It exhibits strong adhesion to difficult-to-bond metals, such as gold, silver and copper. This adhesive retains its bond strength after exposure to moisture. TRA-BOND 789-3 is available in a variety of colors to fit the application. Information provided by Tra-Con Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Tra-Con-Tra-Bond-789-3-Moisture-Resistant-Adhesive.php](http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-789-3-Moisture-Resistant-Adhesive.php)

Physical Properties	Metric	English	Comments
Viscosity	36500 cP	36500 cP	Mixed

Mechanical Properties	Metric	English	Comments
Adhesive Bond Strength	37.9 MPa	5500 psi	Lap shear, gold to gold

Thermal Properties	Metric	English	Comments
CTE, linear	63.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	35.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	Below Tg
	140 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	77.8 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	Above Tg
Thermal Conductivity	0.300 W/m-K @Temperature 121 $^\circ\text{C}$	2.08 BTU-in/hr-ft <sup>2</sup> - $^\circ\text{F}$ @Temperature 250 $^\circ\text{F}$	
Maximum Service Temperature, Air	150 $^\circ\text{C}$	302 $^\circ\text{F}$	
Minimum Service Temperature, Air	-60.0 $^\circ\text{C}$	-76.0 $^\circ\text{F}$	
Glass Transition Temp, Tg	126 $^\circ\text{C}$	259 $^\circ\text{F}$	Ultimate Tg

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+14 ohm-cm	2.00e+14 ohm-cm	
Dielectric Constant	4.2	4.2	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	31.5 kV/mm	800 kV/in	
Dissipation Factor	0.011	0.011	
	@Frequency 1000 Hz	@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	
Shelf Life	6.00 Month	6.00 Month	At 5°C
	12.0 Month	12.0 Month	
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Descriptive Properties	Value	Comments
Color	Cream	
Outgassing, NASA	Passes	
Weight Loss %	0.28	At 250°C
Working Life, months	3	

## Contact Songhan Plastic Technology Co.,Ltd.

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