

## Tra-Con Tra-Bond 813J01 Silicone Encapsulant

Category : Polymer , Adhesive , Thermoset , Silicone

### Material Notes:

TRA-BOND 813J01 is a silicone adhesive system formulated to provide excellent thermal conductivity. This unique product bonds well to difficult substrates. Typical applications include encapsulation of heat generating devices such as transformers, thermistors or power sources and pour-in-place heat sinks. TRA-BOND 813J01 exhibits very low stress upon cure thus preventing component cracking and other stress related problems. It can be room temperature cured in thick or thin sections. This non-corrosive potting material will not revert when exposed to high temperatures. TRA-BOND 813J01 has a 6 month shelf life when stored at 25°C. Information provided by Tra-Con Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Tra-Con-Tra-Bond-813J01-Silicone-Encapsulant.php](http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-813J01-Silicone-Encapsulant.php)

Physical Properties	Metric	English	Comments
Specific Gravity	2.10 g/cc	2.10 g/cc	Mixed
Viscosity	40000 cP	40000 cP	Mixed

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75	75	
Adhesive Bond Strength	3.45 MPa	500 psi	Lap shear, alum to alum

Thermal Properties	Metric	English	Comments
CTE, linear	200 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	111 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Thermal Conductivity	1.10 W/m-K	7.63 BTU-in/hr-ft <sup>2</sup> - $^\circ\text{F}$	
Maximum Service Temperature, Air	260 $^\circ\text{C}$	500 $^\circ\text{F}$	
Minimum Service Temperature, Air	-65.0 $^\circ\text{C}$	-85.0 $^\circ\text{F}$	
Glass Transition Temp, Tg	-120 $^\circ\text{C}$	-184 $^\circ\text{F}$	Ultimate Tg

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	

Processing Properties	Metric	English	Comments
Cure Time	20.0 min	0.333 hour	
	@Temperature 150 $^\circ\text{C}$	@Temperature 302 $^\circ\text{F}$	
	60.0 - 240 min	1.00 - 4.00 hour	

Processing Properties	Metric	English	Comments
	@Temperature 65.0 °C	@Temperature 149 °F	
	2880 - 10100 min	48.0 - 168 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Red	
Mix Ratio, parts by weight	100/100	Resin/Hardener
Working Life minutes	100	100 grams

## Contact Songhan Plastic Technology Co.,Ltd.

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