

## Tra-Con Tra-Bond 342-14T Low Viscosity Room Temperature Cure Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy , Filled/Reinforced Thermoset

### Material Notes:

TRA-BOND 342-14T single component, low viscosity alumina-filled epoxy adhesive exhibits high bond strength and excellent thermal shock characteristics. This adhesive may be cured at room temperature in 24 hours or at elevated temperatures. TRA-BOND 342-14T adhesive may be used to bond semi-porous materials such as ferrite, where a physical, rather than a chemical, bond is required. Information provided by Tra-Con Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Tra-Con-Tra-Bond-342-14T-Low-Viscosity-Room-Temperature-Cure-Epoxy-Adhesive.php](http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-342-14T-Low-Viscosity-Room-Temperature-Cure-Epoxy-Adhesive.php)

Physical Properties	Metric	English	Comments
Specific Gravity	2.10 g/cc	2.10 g/cc	Mixed
Viscosity	8000 cP	8000 cP	Mixed

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	94	94	
Adhesive Bond Strength	17.2 MPa	2500 psi	Lap shear, alum to alum

Thermal Properties	Metric	English	Comments
CTE, linear	33.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	18.3 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	Below Tg
	130 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	72.2 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	Above Tg
Thermal Conductivity	0.780 W/m-K	5.41 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 121 °C	@Temperature 250 °F	
Glass Transition Temp, Tg	70.0 °C	158 °F	Ultimate Tg

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+14 ohm-cm	2.00e+14 ohm-cm	
Dielectric Constant	5.3	5.3	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.0060	0.0060	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
-----------------------	--------	---------	----------

Processing Properties	Metric	English	Comments
Cure Time			
	@Temperature 120 °C	@Temperature 248 °F	
	60.0 min	1.00 hour	
	@Temperature 95.0 °C	@Temperature 203 °F	
	120 min	2.00 hour	
	@Temperature 65.0 °C	@Temperature 149 °F	
	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Shelf Life	12.0 Month	12.0 Month	
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Descriptive Properties	Value	Comments
Weight Loss %	0.01	At 250°C
Working Life minutes	30	At 25°C

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China