

## Tra-Con Tra-Bond 2125 Rigid Syntactic Repair Adhesive

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

### Material Notes:

TRA-BOND 2125 is a medium viscosity, low density syntactic foam epoxy formulation developed for industrial, electronic and aerospace honeycomb, fillet, edge-fill, contour repair, bonding and casting applications where a light-weight, low shrinkage and low expansion material is required. This adhesive is color-coded for smooth, easy mixing and handling at room temperature, and it develops strong, highly reliable bonds to most surfaces including metals, building construction products, glass and glass fabrics and many plastics. TRA- BOND 2125 is a completely unicellular material composed of micron-sized glass spheres in a high performance epoxy binder, has a very uniform point-to-point structure and exhibits low shrinkage during cure, good dimensional stability, low density, high strength-to-weight ratio, high dielectric strength, and a low dielectric constant. The fully cured adhesive is a strong, light weight and durable electrical insulator which can be cut, drilled, sawed and shaped as needed with ordinary shop tools. In addition, TRA-BOND 2125 is resistant to water, weather, gases and vapors, salt and salt solutions, mild acids and alkalis, alcohol, jet fuels, gasoline and other petroleum products, and many other organic and inorganic compounds. Information provided by Tra-Con Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Tra-Con-Tra-Bond-2125-Rigid-Syntactic-Repair-Adhesive.php](http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-2125-Rigid-Syntactic-Repair-Adhesive.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.800 g/cc	0.800 g/cc	Mixed
Viscosity	35000 cP @Temperature 25.0 °C	35000 cP @Temperature 77.0 °F	After mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75	75	
Compressive Strength	89.6 MPa	13000 psi	
Izod Impact, Notched	0.107 J/cm	0.200 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	22.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	12.2 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 °F	
Thermal Conductivity	0.130 W/m-K	0.902 BTU-in/hr-ft <sup>2</sup> -°F	
Maximum Service Temperature, Air	150 °C	302 °F	
Minimum Service Temperature, Air	-50.0 °C	-58.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.40e+15 ohm-cm	2.40e+15 ohm-cm	

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	14.8 kV/mm	375 kV/in	
Dissipation Factor	0.010 @Frequency 1000 Hz	0.010 @Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	480 min	8.00 hour	4 hrs @ 25°C + 4 hrs @ 65°C
	1440 min @Temperature 25.0 °C	24.0 hour @Temperature 77.0 °F	
Pot Life	45 min	45 min	

Descriptive Properties	Value	Comments
Color	Light Gray	
Mix Ratio, parts by weight	100/9	Resin/Hardener
Outgassing, NASA	Passes	

## 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