

## Tra-Con Tra-Bond 2103 Medium Viscosity/Low Vapor Pressure Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

**Material Notes:**

TRA-BOND 2103 is a clear, near transparent, medium viscosity epoxy adhesive formulation developed for rigid laminating, sealing and bonding applications where the combination of good wetting plus improved mechanical electrical properties is required. This two-part liquid epoxy adhesive contains no solvents and is easy to mix, use and apply at room temperature. TRA-BOND 2103 develops strong, rigid, high performance bonds to itself and to ceramics, glass and glass fabrics, metals, laminates and other composite materials, forestry and masonry products, and to most rigid plastics. Fully cured TRA-BOND 2103 is an effective electrical insulator, and further provides excellent resistance to weather, galvanic action, vapors, JP4 fuel, gasoline, lubricants and other petroleum products, mild acids and alkalis, salts, and 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-2103-Medium-ViscosityLow-Vapor-Pressure-Epoxy-Adhesive.php](http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-2103-Medium-ViscosityLow-Vapor-Pressure-Epoxy-Adhesive.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	Mixed
Solids Content	100 %	100 %	Reactive Solids Content

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	87	87	
Izod Impact, Notched	0.107 J/cm	0.200 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	52.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	28.9 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Maximum Service Temperature, Air	125 $^{\circ}\text{C}$	257 $^{\circ}\text{F}$	
Minimum Service Temperature, Air	-60.0 $^{\circ}\text{C}$	-76.0 $^{\circ}\text{F}$	

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.00e+13 ohm-cm	6.00e+13 ohm-cm	
Dielectric Constant	4.1	4.1	
Dielectric Strength	16.5 kV/mm	420 kV/in	

Designation Factor Electrical Properties	0.020 Metric	0.020 English	Comments
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Processing Properties	Metric	English	Comments
Cure Time	240 min	4.00 hour	
	@Temperature 65.0 °C	@Temperature 149 °F	
Pot Life	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	20 min	20 min	

Descriptive Properties	Value	Comments
Color	Clear, Slight Haze	
Mix Ratio, parts by weight	100/25	Resin/Hardener

## 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