

## Tra-Con Tra-Bond 2123 Metal Repair Steel/Epoxy Adhesive

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

**Material Notes:**

TRA-BOND 2123 is a versatile steel metal/epoxy adhesive formulation developed for modern industrial repair, casting and bonding applications where a steel-like or cast iron finish is required. This easy-to-use adhesive system contains no solvents and cures fairly rapidly at room temperature to a hard, low shrinkage solid, which bonds readily to steel, aluminum, and other metals, wood, concrete, glass, ceramics and many plastics. Fully cured TRA-BOND 2123 is tough and durable, resistant to water, mild acids and alkalis, salts and salt solutions, lubricating oils, petroleum solvents, gasoline, jet fuels, alcohol and many other organic and inorganic materials, While it may be attracted to a magnet, it is essentially an electrical insulator which can be readily drilled, cut, sawed and machined with regular metal working tools Typical repair applications: jigs, molds, dies, fixtures, plumbing, automotive, castings, aircraft, ships, marine, salvage.

Information provided by Tra-Con Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Tra-Con-Tra-Bond-2123-Metal-Repair-SteelEpoxy-Adhesive.php](http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-2123-Metal-Repair-SteelEpoxy-Adhesive.php)

Physical Properties	Metric	English	Comments
Specific Gravity	2.35 g/cc	2.35 g/cc	Mixed
Solids Content	100 %	100 %	Reactive Solids Content
Viscosity	32000 cP @Temperature 25.0 °C	32000 cP @Temperature 77.0 °F	After mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	88	88	

Thermal Properties	Metric	English	Comments
CTE, linear	38.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	21.1 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 °F	
Thermal Conductivity	0.590 W/m-K	4.09 BTU-in/hr-ft <sup>2</sup> -°F	
Maximum Service Temperature, Air	135 °C	275 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	
Glass Transition Temp, Tg	110 °C	230 °F	Ultimate Tg
Shrinkage	0.080 %	0.080 %	

Electrical Properties	Metric	English	Comments
Dielectric Constant	65	65	

Electrical Properties	@Frequency 1000 Hz Metric	@Frequency 1000 Hz English	Comments
Dielectric Strength	1.18 kV/mm	30.0 kV/in	
Dissipation Factor	0.20 @Frequency 1000 Hz	0.20 @Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	240 min @Temperature 65.0 °C	4.00 hour @Temperature 149 °F	
	1440 min @Temperature 25.0 °C	24.0 hour @Temperature 77.0 °F	
Pot Life	30 min	30 min	

Descriptive Properties	Value	Comments
Color	Steel Gray	
Mix Ratio, parts by weight	100/10	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