

## Tra-Con Tra-Bond 2129 Clear Low Viscosity Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

### Material Notes:

TRA-BOND 2129 is a low viscosity epoxy adhesive recommended for industrial and electronic production, repair, small casting, coating, tooling, and rigid laminating applications where a clear system with good mechanical and electrical properties is required. This easy-to-use epoxy adhesive cures at room temperature and develops strong, low shrinkage bonds to most materials - metals, ceramics and ceramic inserts, glass and glass fabrics, wood and many rigid plastics. Fully cured TRA-BOND 2129 is an effective electrical insulator with good low temperature mechanical and impact resistance properties, and outstanding resistance to water, most petroleum products, salt solutions, mild acids and alkalis 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-2129-Clear-Low-Viscosity-Epoxy-Adhesive.php](http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-2129-Clear-Low-Viscosity-Epoxy-Adhesive.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	Mixed
Solids Content	100 %	100 %	Reactive Solids Content
Viscosity	1900 cP @Temperature 25.0 °C	1900 cP @Temperature 77.0 °F	After mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	88	88	
Adhesive Bond Strength	6.89 MPa	1000 psi	Lap shear, alum to alum
Izod Impact, Notched	0.256 J/cm	0.480 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	58.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	32.2 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 °F	
Maximum Service Temperature, Air	140 °C	284 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	
Glass Transition Temp, Tg	95.0 °C	203 °F	Ultimate Tg

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

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	5.90e+13 ohm-cm Metric	5.90e+13 ohm-cm English	Comments
	9.50e+9 ohm-cm	9.50e+9 ohm-cm	
	@Temperature 100 °C	@Temperature 212 °F	
Dielectric Constant	4.0	4.0	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	16.1 kV/mm	410 kV/in	
Dissipation Factor	0.020	0.020	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

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

Descriptive Properties	Value	Comments
Color	Clear, Transparent	
Mix Ratio, parts by weight	100/25	Resin/Hardener
Thixotropic Index	1	

## Contact Songhan Plastic Technology Co.,Ltd.

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