

## Tra-Con Tra-Bond 2114 Water White Transparent Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

**Material Notes:**

TRA-BOND 2114 is a transparent, low viscosity epoxy resin formulation recommended for industrial adhesive and laminating applications where sparkling clarity and excellent structural, mechanical and electrical properties are required. In addition, this 100% reactive solids (contains no solvents) adhesive system is easily mixed, handled and cured at room temperature, and it readily bonds to a wide variety of modern materials and surfaces (includes metals, glass, glass fabrics and glass products, ceramics, and many plastics). Fully cured TRA-BOND 2114 is a tough, strong, durable and almost water white electrical insulator which is resistant to water, gases and vapors, most petroleum products and fuels, salt solution, 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-2114-Water-White-Transparent-Epoxy-Adhesive.php](http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-2114-Water-White-Transparent-Epoxy-Adhesive.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	Mixed
Viscosity	640 cP @Temperature 25.0 °C	640 cP @Temperature 77.0 °F	After mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	78	78	
Tensile Strength, Yield	49.6 MPa	7200 psi	
Adhesive Bond Strength	16.2 MPa	2350 psi	Lap shear, alum to alum, 1 hr @ 100°C

Thermal Properties	Metric	English	Comments
CTE, linear	66.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	36.7 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 °F	
Maximum Service Temperature, Air	110 °C	230 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	
Glass Transition Temp, Tg	77.0 °C	171 °F	Ultimate Tg

Optical Properties	Metric	English	Comments
Refractive Index	1.57	1.57	
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.50e+9 ohm-cm	3.50e+9 ohm-cm	
Dielectric Constant	4.79	4.79	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	16.1 kV/mm	410 kV/in	
Dissipation Factor	0.010	0.010	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	480 min	8.00 hour	4 hrs @ 25°C + 4 hrs @ 65°C-plus
	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	60 min	60 min	

Descriptive Properties	Value	Comments
Color	Transparent, Clear	

## Contact Songhan Plastic Technology Co.,Ltd.

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