

Tra-Con Tra-Bond 2113 Clear Low Viscosity Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND 2113 is a clear, low viscosity epoxy adhesive system that contains no solvents, cures at room temperature, has excellent flowability and wetting characteristics, and adheres strongly to glass, ceramics, most metals and many plastics. It is particularly recommended for assembly and repair work of fiber optic and other high performance electronic and aerospace systems and components, and for structural laminating applications where an initial low viscosity and near transparent "color" are needed. Fully cured TRA-BOND 2113 is a good electrical insulator, provides excellent resistance to weather, galvanic action, salt solutions and many other chemicals including mild acid and alkalis, petroleum solvents, lubricating oils, jet fuels and gasoline, and alcohol. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-2113-Clear-Low-Viscosity-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	Mixed
Viscosity	300 cP @Temperature 25.0 °C	300 cP @Temperature 77.0 °F	After mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	88	88	
Adhesive Bond Strength	15.2 MPa	2200 psi	Lap shear, alum to alum, 2 hrs @ 65°C
Izod Impact, Notched	0.128 J/cm	0.240 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 µm/m-°C @Temperature 20.0 °C	33.3 µin/in-°F @Temperature 68.0 °F	
Maximum Service Temperature, Air	130 °C	266 °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
Transmission, Visible	90 %	90 %	clear; thickness not quantified

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	6.00e+13 ohm-cm Metric	6.00e+13 ohm-cm English	Comments
	1.00e+10 ohm-cm	1.00e+10 ohm-cm	
	@Temperature 100 °C	@Temperature 212 °F	
Dielectric Constant	4.3	4.3	
	@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	Transparent, Clear	
Mix Ratio, parts by weight	100/11	Resin/Hardener
Thixotropic Index	1	

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