

Tra-Con Tra-Bond 2115 Clear High Strength Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND 2115 is a clear, low viscosity epoxy formulation used in the fabrication of lasers. It is capable of withstanding 30 seconds of 60 watt direct laser energy. The low cure shrinkage (using a room temperature cure) make 2115 an excellent choice for bonding optical components where alignment accuracy is essential. This high strength system is also used for laminating glass and rigid plastics or bonding metals and ceramics. TRA-BOND 2115 offers superior resistance to mechanical shock and temperature cycling. It has been used in cycling applications down to 4K. It is also resistant to water, weather, ozone, most petroleum products, mild acids and alkalis and many other chemicals. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-2115-Clear-High-Strength-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	Mixed
Viscosity	250 cP @Temperature 25.0 °C	250 cP @Temperature 77.0 °F	After mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	78	78	
Adhesive Bond Strength	26.2 MPa	3800 psi	Lap shear, alum to alum
Izod Impact, Notched	0.117 J/cm	0.220 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	55.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature 20.0 °C	30.6 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature 68.0 °F	
Maximum Service Temperature, Air	100 °C	212 °F	
Minimum Service Temperature, Air	-70.0 °C	-94.0 °F	
Glass Transition Temp, Tg	55.0 °C	131 °F	Ultimate Tg

Optical Properties	Metric	English	Comments
Refractive Index	1.55	1.55	
Transmission, Visible	90 %	90 %	clear; thickness not quantified

Electrical Properties	Metric	English	Comments
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Electrical Properties	9.00e+8 ohm-cm Metric	9.00e+8 ohm-cm English	Comments
Dielectric Constant	4.8	4.8	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	16.9 kV/mm	430 kV/in	
Dissipation Factor	0.010	0.010	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	60.0 - 120 min	1.00 - 2.00 hour	
	@Temperature 65.0 °C	@Temperature 149 °F	
	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	120 min	120 min	

Descriptive Properties	Value	Comments
Color	Clear	
Mix Ratio, parts by weight	100/30	Resin/Hardener
Thixotropic Index	1	

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