

Tra-Con Tra-Bond 2202 Low Viscosity/High Temperature Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND 2202 is a low viscosity, high temperature cure epoxy resin system developed for rigid laminating, filament winding, potting and bonding applications where a clear, almost transparent adhesive system with good mechanical and electrical properties plus good heat resistance is required. This all liquid system has a long pot life and is easily mixed and handled at room temperature, however a final elevated temperature cure is REQUIRED for the complete development of its superior properties. TRA-BOND 2202 bonds to metals, glass, ceramics and other high temperature resistant products. Fully cured TRA-BOND 2202 is a strong, durable electrical insulator, and it provides excellent resistance to weather, water, vapors and gases, most petroleum products and solvents, salts, mild acids and alkalis, and many other organic and inorganic compounds. An additional post-cure of 4 hours at 145°C is recommended when application temperatures higher than 145°C are anticipated. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-2202-Low-ViscosityHigh-Temperature-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	Mixed
Solids Content	100 %	100 %	Reactive Solids Content
Viscosity	2200 cP @Temperature 25.0 °C	2200 cP @Temperature 77.0 °F	After mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	87	87	
Adhesive Bond Strength	20.7 MPa	3000 psi	Lap shear, alum to alum, cured 8 hrs

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	175 °C	347 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	
Glass Transition Temp, Tg	132 °C	270 °F	Ultimate Tg

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

Electrical Properties	Metric	English	Comments
Volume Resistivity	7.20e+15 ohm-cm	7.20e+15 ohm-cm	

Electrical Properties	5.10e+12 ohm-cm Metric	5.10e+12 ohm-cm English	Comments
	@Temperature 150 °C	@Temperature 302 °F	
Dielectric Constant	3.4	3.4	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	15.0 kV/mm	380 kV/in	
Dissipation Factor	0.010	0.010	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	360 min	6.00 hour	2 hrs @ 65°C + 4 hrs @ 130°C
	600 min	10.0 hour	2 hrs @ 65°C + 8 hrs @ 115°C
Pot Life	14400 min	14400 min	(10 days)

Descriptive Properties	Value	Comments
Color	Clear	
Mix Ratio, parts by weight	100/76	Resin/Hardener
Thixotropic Index	1.1	5 rpm/50 rpm

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