

Tra-Con Tra-Bond 2106 Fast Cure, Medium Viscosity Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND 2106 is an exceptional epoxy formulation recommended for lower temperature or wet industrial bonding applications where FAST CURING is required. This clear, two-part, medium viscosity system mixes easily at room temperature, contains no solvents, and is suitable for high performance structural bonding applications where the combination of very fast room temperature cure coupled with low shrinkage and excellent mechanical and electrical properties is required. It develops strong, tough bonds to metals, phenolic plastics, polyesters, glass and glass fabrics, hardboards and forestry products, ceramics, rubber, masonry materials, and other construction materials. Fully cured TRA-BOND 2106 is an excellent electrical insulator, and provides superior resistance to vapors and gases, water, galvanic action, petroleum fuels, salt solutions, and many other organic and inorganic compounds. Note: TRA-BOND 2106 develops a high exotherm. Use immediately after mixing. The exothermic reaction begins within 2 minutes after initiating the mixing step, so have everything ready before removing BIPAX clamp. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-2106-Fast-Cure-Medium-Viscosity-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	Mixed
Viscosity	15500 cP @Temperature 25.0 °C	15500 cP @Temperature 77.0 °F	After mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	25	25	10 min @ 25°C
	67	67	30 min @ 25°C
	72	72	60 min @ 25°C
Izod Impact, Notched	1.01 J/cm	1.90 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 µm/m-°C	33.3 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	115 °C	239 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	
Glass Transition Temp, Tg	32.0 °C	89.6 °F	Ultimate Tg

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	5.00e+11 ohm-cm Metric	5.00e+11 ohm-cm English	Comments
Dielectric Constant	4.8	4.8	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	16.1 kV/mm	410 kV/in	

Processing Properties	Metric	English	Comments
Cure Time	60.0 min	1.00 hour	
	@Temperature 65.0 °C	@Temperature 149 °F	
	240 - 360 min	4.00 - 6.00 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	5.0 min	5.0 min	

Descriptive Properties	Value	Comments
Color	Transparent, Straw	
Mix Ratio, parts by weight	100/93	Resin/Hardener

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