

Tra-Con Tra-Bond 2106T Fast Cure Thixotropic Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND 2106T is an exceptional epoxy formulation recommended for lower temperature or wet industrial bonding applications where FAST CURING is required. This versatile two-part epoxy system contains no solvents, mixes easily at room temperature, and is suitable for high performance structural bonding applications where the combination of very fast room temperature curing coupled with low shrinkage and excellent mechanical and electrical properties is needed. It develops strong, tough bonds to metals, plastics, glass and glass fabrics, hardboards and forestry products, ceramics, rubber, masonry materials, and other construction materials. When fully cured, TRA-BOND 2106T 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. TRA-BOND 2106T develops significant properties 1 hour after mixing. However, an extended cure of 4-6 hours at 25°C is required for fully matured bonds. Note: TRA-BOND 2106T 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 the BIPAX clamp. Information provided by Tra-Con Inc.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	Mixed
Solids Content	100 %	100 %	Reactive Solids Content
Viscosity	3600 cP	3600 cP	Mixed

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	25	25	After 10 min
	67	67	After 30 min
	72	72	After 60 min
Adhesive Bond Strength	1.38 MPa	200 psi	Lap shear, alum to alum
Izod Impact, Notched	1.01 J/cm	1.90 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	33.3 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	115 °C	239 °F	
	150 °C	302 °F	Intermittent
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	25.0 °C	77.0 °F	Ultimate Tg

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.00e+11 ohm-cm	5.00e+11 ohm-cm	
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	Hazy, Light Straw	
Mix Ratio, parts by weight	110/93	Resin/Hardener

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