

Tra-Con Tra-Bond 2110 High Impact Epoxy Staking Compound

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND 2110 is a thixotropic epoxy resin and hardener formulation developed for industrial adhesive, staking, laminating, repair and manufacturing applications where long pot-life, good wetting, non-sag, non-drip and improved impact strength properties are required. This easy-to-use two part adhesive system contains no volatile solvents, readily cures at room temperature, and bonds to most materials including glass and glass fabrics, ceramics, wood, leather, most metals, and many plastics. Fully cured TRA-BOND 2110 is strong, tough, resilient, has superior mechanical impact and thermal shock resistance characteristics, and is also highly resistant to weather, water, gases and vapors, most petroleum products and fuels, salts, mild acids and alkalis, and many other organic and inorganic compounds.

Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-2110-High-Impact-Epoxy-Staking-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	Mixed
Viscosity	60000 cP @Temperature 25.0 °C	60000 cP @Temperature 77.0 °F	After mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	81	81	
Adhesive Bond Strength	21.4 MPa	3100 psi	Lap shear, alum to alum
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	55.0 µm/m-°C @Temperature 20.0 °C	30.6 µin/in-°F @Temperature 68.0 °F	
Maximum Service Temperature, Air	100 °C	212 °F	
Minimum Service Temperature, Air	-70.0 °C	-94.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	9.50e+8 ohm-cm	9.50e+8 ohm-cm	
	280 ohm-cm @Temperature 80.0 °C	280 ohm-cm @Temperature 176 °F	
	4.7	4.7	

Dielectric Constant Electrical Properties	Metric @Frequency 1000 Hz	English @Frequency 1000 Hz	Comments
Dielectric Strength	16.9 kV/mm	430 kV/in	
Dissipation Factor	0.010 @Frequency 1000 Hz	0.010 @Frequency 1000 Hz	
	0.31 @Frequency 1000 Hz	0.31 @Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	480 min	8.00 hour	4 hrs @ 25°C + 4 hrs @ 65°C
	1440 min @Temperature 25.0 °C	24.0 hour @Temperature 77.0 °F	
	4320 min @Temperature 25.0 °C	72.0 hour @Temperature 77.0 °F	
Pot Life	60 min	60 min	100 grams
	90 min	90 min	25 grams

Descriptive Properties	Value	Comments
Color	Hazy, Off White	
Mix Ratio, parts by weight	100/30	Resin/Hardener
Thixotropic Index	6.6	10 rpm/100 rpm
Working Life hours	1	100 grams

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