

Tra-Con Tra-Bond 2101 General Purpose Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND 2101 is a medium viscosity epoxy formulation recommended for laminating, bonding, repair and other adhesive applications where the combination of its superior structural, mechanical and electrical performance properties are required. This two-part adhesive easily mixes and cures at room temperature, and develops strong, durable, tough bonds to most clean, dry material surfaces - including metals, ceramics, glass and glass fabrics, wood leather, and many rigid plastics. The fully cured TRA-BOND 2101 bonds are good electrical insulators which also provide excellent resistance to weather, galvanic action, many mild acids and alkalis, salt solution, petroleum solvents, lubricating oil, gasoline, jet fuels, alcohol, and many other organic and inorganic materials. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-2101-General-Purpose-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	Mixed
Solids Content	100 %	100 %	Reactive Solids Content
Viscosity	19000 cP @Temperature 25.0 °C	19000 cP @Temperature 77.0 °F	After mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	
Adhesive Bond Strength	22.8 MPa	3300 psi	Lap shear, alum to alum
Izod Impact, Notched	0.427 J/cm	0.800 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	55.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	30.6 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 °F	
Maximum Service Temperature, Air	135 °C	275 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	
Glass Transition Temp, Tg	62.0 °C	144 °F	Ultimate Tg

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.00e+15 ohm-cm	6.00e+15 ohm-cm	
	5.00e+9 ohm-cm @Temperature 100 °C	5.00e+9 ohm-cm @Temperature 212 °F	

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	14.6 kV/mm	370 kV/in	
Dissipation Factor	0.020 @Frequency 1000 Hz	0.020 @Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	240 min @Temperature 65.0 °C	4.00 hour @Temperature 149 °F	
	1440 min @Temperature 25.0 °C	24.0 hour @Temperature 77.0 °F	
Pot Life	30 min	30 min	

Descriptive Properties	Value	Comments
Color	Clear, Slight Haze	
Mix Ratio, parts by weight	100/25	Resin/Hardener

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