

Tra-Con Tra-Bond 2135D High Impact Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND 2135D is a medium viscosity epoxy adhesive recommended for bonding, laminating, sealing, and structural repair applications where easy mixing and good wetting combined with high impact strength properties are required. This superior, two-part adhesive is easily mixed and handled at room temperature, and develops strong, tough, high performance bonds to metals, ceramics, wood, concrete, phenolics, polyesters, epoxies, many urethanes and other plastics, and to many other materials. Fully cured TRA-BOND 2135D is a tough, durable, electrically insulating adhesive with excellent mechanical, impact and shock resistance properties. In addition, it provides good resistance to gases, vapors, weather, water, petroleum solvents, anti-icing fluids, salt solutions, many mild acids and alkalis, and many other organic materials. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-2135D-High-Impact-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	Mixed
Solids Content	100 %	100 %	Reactive Solids Content
Viscosity	1200 cP @Temperature 25.0 °C	1200 cP @Temperature 77.0 °F	After mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	70	70	
Adhesive Bond Strength	1.61 MPa	234 psi	Lap shear, alum to alum, 24 hrs @ 25°C
	19.91 MPa	2888 psi	Lap shear, alum to alum, 4 hrs @ 65°C

Thermal Properties	Metric	English	Comments
CTE, linear	55.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature 20.0 °C	30.6 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature 68.0 °F	
Maximum Service Temperature, Air	100 °C	212 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	
Glass Transition Temp, Tg	54.0 °C	129 °F	Ultimate Tg

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.70e+13 ohm-cm	2.70e+13 ohm-cm	

Electrical Properties	^{3.68} Metric	^{3.68} English	Comments
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	17.1 kV/mm	435 kV/in	
Dissipation Factor	0.020	0.020	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	240 min	4.00 hour	
	@Temperature 65.0 °C	@Temperature 149 °F	
	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	60 min	60 min	

Descriptive Properties	Value	Comments
Color	Light Amber	
Mix Ratio, parts by weight	100/60	Resin/Hardener

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