

Tra-Con Tra-Bond 2126 Black Opaque Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND 2126 is recommended for those modern photographic, industrial, and laboratory bonding and laminating applications where an easy-to-use, black (opaque) epoxy adhesive system with high performance structural, mechanical and electrical properties is required. This two-part smooth paste thixotropic epoxy formulation contains no solvents and is easy to handle as it readily mixes and cures at room temperature. It bonds strongly to itself and to most materials (including glass and glass fabrics, ceramics, wood, leather, metals and many plastics), exhibits low shrinkage during cure, and has excellent dimensional stability over a wide temperature range. Fully cured TRA-BOND 2126 has good low temperature impact resistance and mechanical properties, and is a most effective electrical insulator. In addition, it is resistant to water, weather, oxygen, ozone, petroleum products, jet fuels, salts, mild acids and alkalis, and many 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-2126-Black-Opaque-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.60 g/cc	1.60 g/cc	Mixed
Viscosity	40000 cP @Temperature 25.0 °C	40000 cP @Temperature 77.0 °F	After mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	90	90	
Compressive Strength	109 MPa	15800 psi	
Adhesive Bond Strength	18.6 MPa	2700 psi	Lap shear, alum to alum, 2 hrs @ 65°C

Thermal Properties	Metric	English	Comments
CTE, linear	33.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	18.3 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 °F	
Maximum Service Temperature, Air	145 °C	293 °F	
Minimum Service Temperature, Air	-50.0 °C	-58.0 °F	
Glass Transition Temp, Tg	95.0 °C	203 °F	Ultimate Tg

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.80e+16 ohm-cm	3.80e+16 ohm-cm	
	3.60e+14 ohm-cm	3.60e+14 ohm-cm	

Electrical Properties	@Temperature 100 °C Metric	@Temperature 212 °F English	Comments
Dielectric Constant	4.1	4.1	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	15.4 kV/mm	390 kV/in	
Dissipation Factor	0.010	0.010	
	@Frequency 1000 Hz	@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	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	30 min	30 min	

Descriptive Properties	Value	Comments
Color	Black	
Heat Distortion Temperature °C	102	
Mix Ratio, parts by weight	100/12	Resin/Hardener

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