

Tra-Con Tra-Bond 2230 Color Keyed, High Temperature Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND 2230 is a clear, low viscosity, high temperature, two-part epoxy adhesive that changes colors during the curing process to indicate cure status. The unmixed components are light yellow; the mixture is light green; and the fully cured adhesive is reddish-amber. It exhibits excellent wicking, and develops strong, tough, mechanically stable bonds to a wide variety of materials that includes most metals, ceramics, glass and many plastics. In addition, TRA-BOND 2230 demonstrates low stress and has good impact and thermal shock resistance. It also is resistant to water and weathering, vapors and gases, most petroleum products, and an extended range of organic and inorganic environments. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-2230-Color-Keyed-High-Temperature-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	Mixed
Solids Content	100 %	100 %	Reactive Solids Content
Viscosity	1950 cP @Temperature 25.0 °C	1950 cP @Temperature 77.0 °F	After mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	
Adhesive Bond Strength	13.7 MPa	1980 psi	Lap shear, alum to alum
Izod Impact, Notched	0.320 J/cm	0.600 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	38.9 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 °F	
Maximum Service Temperature, Air	175 °C	347 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	
Glass Transition Temp, Tg	110 °C	230 °F	Ultimate Tg

Optical Properties	Metric	English	Comments
Refractive Index	1.56	1.56	

Electrical Properties	Metric	English	Comments
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Dielectric Strength Electrical Properties	15.0 kV/mm Metric	380 kV/in English	Comments
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Processing Properties	Metric	English	Comments
Cure Time	1.00 min	0.0167 hour	
	@Temperature 150 °C	@Temperature 302 °F	
	5.00 min	0.0833 hour	
	@Temperature 125 °C	@Temperature 257 °F	
	15.0 min	0.250 hour	
	@Temperature 100 °C	@Temperature 212 °F	
Pot Life	60 min	60 min	

Descriptive Properties	Value	Comments
Color	Clear, Green	Mixed
	Clear, Light Yellow	Unmixed
	Reddish-amber	Cured
Mix Ratio, parts by weight	100/10	Resin/Hardener
Thixotropic Index	1	

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