

Tra-Con Tra-Bond CA20 Coil-Fix Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy , Filled/Reinforced Thermoset

Material Notes:

TRA-BOND CA-20 is a thixotropic epoxy adhesive system specially formulated for shorted turns, damaged end wire extensions, or other coil repair applications where a high-fill, non-sag adhesive is required. It is dark-red to brown in color to blend with many commonly used insulating varnishes, and it provides a combination of high dielectric isolation coupled with good mechanical strength. Solvent-free TRA-BOND CA-20 is readily mixed, handled, used and cured at room temperature and develops strong bonds to most materials, including metals, glass, ceramics, and many other coil coatings and insulators. When fully cured, this epoxy adhesive provides excellent resistance to galvanic action, petroleum lubricants and solvents, salts, mild acids and alkalis, other organic and inorganic compounds, and weather. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-CA20-Coil-Fix-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	Mixed
Viscosity	27000 cP	27000 cP	After mixing
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	90	90	
Izod Impact, Notched	0.267 J/cm	0.500 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	55.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	30.6 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	115 °C	239 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.00e+13 ohm-cm	6.00e+13 ohm-cm	
	1.00e+10 ohm-cm	1.00e+10 ohm-cm	
	@Temperature 100 °C	@Temperature 212 °F	
Dielectric Constant	4.2	4.2	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Dielectric Strength Electrical Properties	15.7 kV/mm Metric	400 kV/in English	Comments
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Processing Properties	Metric	English	Comments
Cure Time	240 min	4.00 hour	
	@Temperature 65.0 °C	@Temperature 149 °F	
Pot Life	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	30 min	30 min	

Descriptive Properties	Value	Comments
Color	Dark Red	
Mix Ratio, parts by weight	100/22	Resin/Hardener

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