

Tra-Con Tra-Bond Ablebond 481-20 B-Stageable Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

Ablebond 481-20 flexible epoxy adhesive is a modification of Ablebond 481-19 adhesive. This adhesive is designed to absorb stresses between adherends with mismatched coefficients of thermal expansion, such as glass and metal. This adhesive may be applied by dispensing or stamping. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-Ablebond-481-20-B-Stageable-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	
Viscosity	10000 cP	10000 cP	Mixed

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	
Adhesive Bond Strength	10.3 MPa	1500 psi	Lap shear, alum to alum

Thermal Properties	Metric	English	Comments
CTE, linear	25.0 $\mu\text{m/m-}^{\circ}\text{C}$	13.9 $\mu\text{in/in-}^{\circ}\text{F}$	Below Tg
	100 $\mu\text{m/m-}^{\circ}\text{C}$	55.6 $\mu\text{in/in-}^{\circ}\text{F}$	Above Tg
Thermal Conductivity	0.430 W/m-K	2.98 BTU-in/hr-ft ² - $^{\circ}\text{F}$	
	@Temperature 121 $^{\circ}\text{C}$	@Temperature 250 $^{\circ}\text{F}$	
Glass Transition Temp, Tg	65.0 $^{\circ}\text{C}$	149 $^{\circ}\text{F}$	Ultimate Tg

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.30e+13 ohm-cm	1.30e+13 ohm-cm	
Dissipation Factor	0.020	0.020	

Processing Properties	Metric	English	Comments
Cure Time	60.0 min	1.00 hour	
	@Temperature 150 $^{\circ}\text{C}$	@Temperature 302 $^{\circ}\text{F}$	
	120 min	2.00 hour	
	@Temperature 125 $^{\circ}\text{C}$	@Temperature 257 $^{\circ}\text{F}$	

Processing Properties	12.0 Month Metric	12.0 Month English	Comments
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Descriptive Properties	Value	Comments
B-Stage min	30	At 75°C
Thixotropic Index	4	
Weight Loss %	0.3	At 250°C

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