

Tra-Con Tra-Bond 342-13ACC Single Component Low Viscosity Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND 342-13ACC single component, low viscosity epoxy adhesive exhibits high bond strength and excellent thermal shock characteristics. This adhesive may be cured at room temperature in 24 hours or at elevated temperatures. TRA-BOND 342-13ACC adhesive may be used to bond semi-porous materials such as ferrite, where a physical, rather than a chemical, bond is required. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-342-13ACC-Single-Component-Low-Viscosity-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	Mixed
Viscosity	700 cP @Temperature 25.0 °C	700 cP @Temperature 77.0 °F	After mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	86	86	
Adhesive Bond Strength	20.7 MPa	3000 psi	Lap shear, alum to alum, @ 25°C

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.200 W/m-K @Temperature 121 °C	1.39 BTU-in/hr-ft ² -°F @Temperature 250 °F	
Glass Transition Temp, Tg	99.0 °C	210 °F	Ultimate Tg

Electrical Properties	Metric	English	Comments
Volume Resistivity	9.00e+14 ohm-cm @Temperature 100 °C	9.00e+14 ohm-cm @Temperature 212 °F	
Dielectric Constant	4.4 @Frequency 1000 Hz	4.4 @Frequency 1000 Hz	
Dissipation Factor	0.0010 @Frequency 1000 Hz	0.0010 @Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	30.0 min	0.500 hour	

Processing Properties	@Temperature 120 °C Metric	@Temperature 248 °F English	Comments
	60.0 min	1.00 hour	
	@Temperature 95.0 °C	@Temperature 203 °F	
	120 min	2.00 hour	
	@Temperature 65.0 °C	@Temperature 149 °F	
	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Shelf Life	12.0 Month	12.0 Month	
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Descriptive Properties	Value	Comments
Thixotropic Index	1	
Weight Loss %	0.85	At 250°C
Working Life hours	4	At 25°C

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