

Tra-Con Tra-Bond 832-5 Flexible Epoxy

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND 832-5 is a flexible two component epoxy which is intended for bonding materials with mis-matched coefficients of expansion. It exhibits flexibility associated with polyurethanes but does not have the moisture sensitivity which usually creates bubbles during the application and cure of urethanes. TRA-BOND 832-5 has been found to be useful in such applications as bonding optical lenses in aluminum housings. As an example two three-inch long glass microscope slides were bonded to opposite sides of a 0.064 inch thick piece of aluminum and the sandwich was cycled from -75°C to 125°C ten times with no spalling of the glass or bond failure. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-832-5-Flexible-Epoxy.php

Physical Properties	Metric	English	Comments
Viscosity	650 cP @Temperature 25.0 °C	650 cP @Temperature 77.0 °F	After mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75	75	
Adhesive Bond Strength	6.89 MPa	1000 psi	Lap shear, alum to alum

Thermal Properties	Metric	English	Comments
CTE, linear	58.0 µm/m-°C @Temperature -118 - - 54.0 °C	32.2 µin/in-°F @Temperature -180 - - 65.2 °F	
	81.0 µm/m-°C @Temperature -54.0 - - 32.0 °C	45.0 µin/in-°F @Temperature -65.2 - - 25.6 °F	
	173 µm/m-°C @Temperature -32.0 - 25.0 °C	96.1 µin/in-°F @Temperature -25.6 - 77.0 °F	
	224 µm/m-°C @Temperature 25.0 - 66.0 °C	124 µin/in-°F @Temperature 77.0 - 151 °F	
Glass Transition Temp, Tg	-32.0 °C	-25.6 °F	Ultimate Tg

Processing Properties	Metric	English	Comments

Moisture Content Processing Properties	3.0 % Metric	3.0 % English	100% RH & 85°C Comments
Cure Time	180 min	3.00 hour	
	@Temperature 100 °C	@Temperature 212 °F	
	480 min	8.00 hour	
	@Temperature 75.0 °C	@Temperature 167 °F	

Descriptive Properties	Value	Comments
Color	Blue	Mixed
Mix Ratio, parts by weight	100/143	Resin/Hardener
Thixotropic Index	1	
Working Life hours	8	

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