

Tra-Con Tra-Bond 872-3 Flexible Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND 872-3 transparent, flexible epoxy adhesive is designed for bonding materials with mismatched coefficients of thermal expansion. The long working life of this adhesive makes it ideal for use in automated dispensing processes. It readily bonds to ceramics, glass, most metals, and many plastics, and it is therefore especially useful for aerospace and electronic applications where its flexibility, consistency and self-sealing properties are needed (i.e. repottable electronic assemblies). Fully cured TRA-BOND 872-3 is a translucent electrical insulator which is mechanically strong and tougher than comparable silicone gels, and it is further resistant to water, weather, gases and vapors, petroleum products (fuels, solvents and lubricants), mild acids and alkalis, salt solutions and many other organic and inorganic compounds. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-872-3-Flexible-Epoxy-Adhesive.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	
Adhesive Bond Strength	9.65 MPa	1400 psi	Lap shear, alum to alum

Thermal Properties	Metric	English	Comments
CTE, linear	62.0 $\mu\text{m}/\text{m}^{\circ}\text{C}$	34.4 $\mu\text{in}/\text{in}^{\circ}\text{F}$	Below Tg
	240 $\mu\text{m}/\text{m}^{\circ}\text{C}$	133 $\mu\text{in}/\text{in}^{\circ}\text{F}$	Above Tg
Glass Transition Temp, Tg	-11.0 $^{\circ}\text{C}$	12.2 $^{\circ}\text{F}$	Ultimate Tg

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	
Dielectric Constant	6.2	6.2	
Dissipation Factor	0.040	0.040	

Processing Properties	Metric	English	Comments
Cure Time	180 min	3.00 hour	
	@Temperature 100 $^{\circ}\text{C}$	@Temperature 212 $^{\circ}\text{F}$	
	480 min	8.00 hour	

Processing Properties	@Temperature 75.0 °C Metric	@Temperature 167 °F English	Comments
Shelf Life	12.0 Month	12.0 Month	
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Descriptive Properties	Value	Comments
Color	Translucent	
Working Life hours	8	At 25°C

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