

Tra-Con Tra-Duct 2907 Silver-Filled Epoxy Adhesive

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

Material Notes:

TRA-DUCT 2907 is an electrically conducting silver-filled medium viscosity epoxy compound recommended for electronic bonding and sealing applications that require a combination of good mechanical and electrical properties. This two-part, smooth paste formulation of refined pure silver and epoxy is free of solvents and copper or carbon additives. It develops strong, durable, electrically and thermally conducting bonds and coatings between many different and dissimilar materials such as metals, ceramics, glass and plastic laminates. TRA-DUCT 2907 cures at room temperature and can be used as a "cold-solder" for heat-sensitive components where hot-soldering is impractical. It also can be used for the assembly and repair of electrical modules, printed circuits, wave guides, flat cable and high frequency shields. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Duct-2907-Silver-Filled-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Viscosity	6500 cP	6500 cP	Mixed (cp #52, 10 rpm)
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	24 hrs @ 25°C
	87	87	10 min @ 100°C
	88	88	2 hrs @ 65°C
Adhesive Bond Strength	8.27 MPa	1200 psi	Lap shear, alum to alum, 24 hrs @ 25°C
	8.96 MPa	1300 psi	Lap shear, alum to alum, 10 min @ 100°C
	10.3 MPa	1500 psi	Lap shear, alum to alum, 2 hrs @ 65°C

Thermal Properties	Metric	English	Comments
CTE, linear	49.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	27.2 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Glass Transition Temp, Tg	50.0 °C	122 °F	Ultimate Tg

Electrical Properties	Metric	English	Comments
Volume Resistivity	0.00030 ohm-cm	0.00030 ohm-cm	cured 10 min @ 100°C
	0.0040 ohm-cm	0.0040 ohm-cm	cured 2 hrs @ 65°C

Electrical Properties	0.0080 ohm-cm Metric	0.0080 ohm-cm English	cured 24 hrs @ 25°C Comments
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Processing Properties	Metric	English	Comments
Cure Time	10.0 min	0.167 hour	
	@Temperature 100 °C	@Temperature 212 °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	
Pot Life	100 min	100 min	

Descriptive Properties	Value	Comments
Color	Silver	
Thixotropic Index	3.5	1 rpm/10 rpm

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