

Tra-Con Tra-Duct 2919 Room Temperature Conductive, Flexible Silver Epoxy Adhesive

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

Material Notes:

TRA-DUCT 2919 is a non-bleeding, electrically conductive, silver-filled epoxy formulation recommended for electronic bonding, coating, and sealing applications that require high flexibility coupled with good electrical and mechanical properties. This two-part, thixotropic adhesive of refined pure silver and epoxy resin components is free of solvents and copper or carbon additives. It develops resilient, electrically and thermally conducting bonds and coatings between many different and dissimilar materials such as metals, ceramics, glass and plastic insulates. TRA-DUCT 2919 cures at room temperature and can be used as a flexible "cold-solder" for heat-sensitive components where hot-soldering is impractical. It also can be used for the assembly and repair of electrical modules, flexible circuits, membrane switches, 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-2919-Room-Temperature-Conductive-Flexible-Silver-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.32 g/cc	2.32 g/cc	Mixed
Solids Content	100 %	100 %	Reactive Solids Content
Volatile Organic Compounds (VOC) Content	24.41 g/l	24.41 g/l	
Viscosity	995000 cP @Temperature 25.0 °C	995000 cP @Temperature 77.0 °F	Mixed (sp #T-F, 10 rpm)

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	4 hrs @ 65°C
Adhesive Bond Strength	0.621 MPa	90.0 psi	Lap shear, alum to alum, 24 hrs @ 25°C
	1.17 MPa	170 psi	Lap shear, alum to alum, 4 hrs @ 65°C

Thermal Properties	Metric	English	Comments
CTE, linear	35.0 µm/m-°C @Temperature 20.0 °C	19.4 µin/in-°F @Temperature 68.0 °F	
Thermal Conductivity	1.60 W/m-K	11.1 BTU-in/hr-ft²-°F	
Maximum Service Temperature, Air	110 °C	230 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	
Glass Transition Temp, Tg	4.00 °C	39.2 °F	Ultimate Tg

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	0.00011 ohm-cm	0.00011 ohm-cm	cured 4 hrs @ 65°C
	0.0016 ohm-cm	0.0016 ohm-cm	cured 24 hrs @ 25°C

Processing Properties	Metric	English	Comments
Cure Time	240 min	4.00 hour	
	@Temperature 65.0 °C	@Temperature 149 °F	
	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	30 min	30 min	

Descriptive Properties	Value	Comments
Color	Silver	
Mix Ratio, parts by weight	90/100	Resin/Hardener
Thixotropic Index	4.9	5 rpm/50 rpm

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