

Tra-Con Tra-Duct 2924 Conductive Silver Epoxy Adhesive

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

Material Notes:

TRA-DUCT 2924 is a two part electrically conductive composition developed for low shrinkage, low resistivity bonding applications where good electrical and physical properties over a wide temperature range (up to 190°C) are required. This smooth paste formulation of refined pure silver and epoxy is free of solvents and copper or carbon additives. It can be used -- after REQUIRED high temperature cure cycle -- for the assembly, manufacture and repair of electronic modules, printed circuits, integrated circuits, electrical contacts, capacitors, wave guides and flat cables, for high-frequency RF shieldings, and for applications where a "hot" soldering iron is impractical. Fully cured TRA-DUCT 2924 is a hard, dimensionally stable, conductive material which is resistant to water, weathering, gases and vapors, lubricants, fuels, alcohol, and also to those salts, salt solutions, mild acids and alkalis, and other organic and inorganic compounds with which silver itself is compatible. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Duct-2924-Conductive-Silver-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.65 g/cc	2.65 g/cc	Mixed
Solids Content	100 %	100 %	Reactive Solids Content
Viscosity	25000 cP	25000 cP	Mixed (cp #52, 10 rpm)

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	
Adhesive Bond Strength	8.76 MPa	1270 psi	Lap shear, alum to alum, 2 hrs @ 100°C

Thermal Properties	Metric	English	Comments
CTE, linear	49.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	27.2 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	1.50 W/m-K	10.4 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	190 °C	374 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	
Glass Transition Temp, Tg	92.0 °C	198 °F	Ultimate Tg

Electrical Properties	Metric	English	Comments
Volume Resistivity	0.00020 ohm-cm	0.00020 ohm-cm	cured 2 hrs @ 125°C
	0.00050 ohm-cm	0.00050 ohm-cm	cured 2 hrs @ 100°C

Electrical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Cure Time	60.0 min	1.00 hour	
	@Temperature 125 °C	@Temperature 257 °F	
	120 min	2.00 hour	
	@Temperature 100 °C	@Temperature 212 °F	
Pot Life	240 min	240 min	

Descriptive Properties	Value	Comments
Color	Silver	
Mix Ratio, parts by weight	100/5	Resin/Hardener

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