

Tra-Con Tra-Duct 2916 Room Temperature Conductive Silver Epoxy Adhesive

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

Material Notes:

TRA-DUCT 2916 is an 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, smooth paste adhesive of refined pure silver and epoxy resin components is free of solvents and copper or carbon additives. It develops strong, durable, resilient, electrically and thermally conducting bonds and coatings between many different and dissimilar materials such as metals, ceramics, glass and plastic insulates. TRA-DUCT 2916 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, 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-2916-Room-Temperature-Conductive-Silver-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.90 g/cc	2.90 g/cc	Mixed
Solids Content	100 %	100 %	Reactive Solids Content

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	64	64	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.50 W/m-K	10.4 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	110 °C	230 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	
Glass Transition Temp, Tg	5.00 °C	41.0 °F	Ultimate Tg

Electrical Properties	Metric	English	Comments
Volume Resistivity	0.00060 ohm-cm	0.00060 ohm-cm	cured 5 min @ 160°C
	0.00080 ohm-cm	0.00080 ohm-cm	cured 2 hrs @ 65°C
	0.00080 ohm-cm	0.00080 ohm-cm	cured 24 hrs @ 25°C
	0.0012 ohm-cm	0.0012 ohm-cm	cured 15 min @ 150°C
	0.0034 ohm-cm	0.0034 ohm-cm	cured 1 hr @ 110°C

Processing Properties	Metric	English	Comments
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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	180 min	180 min	

Descriptive Properties	Value	Comments
Color	Silver	
Mix Ratio, parts by weight	100/115	Resin/Hardener

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