

Tra-Con Tra-Duct 916H01 Electronically Conductive Silver-Filled Epoxy

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

Material Notes:

TRA-DUCT 916H01 is an electronically conducting silver-filled epoxy compound recommended for electronic bonding and sealing applications that require a combination of good mechanical and electrical properties. This material was developed to be a medium to low viscosity, self leveling conductive adhesive. This two-part 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 916H01 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 cables 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-916H01-Electronically-Conductive-Silver-Filled-Epoxy.php

Physical Properties	Metric	English	Comments
Viscosity	9500 cP	9500 cP	Mixed (cp #52, 10 rpm)
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	1 hr @ 65°C
Adhesive Bond Strength	17.9 MPa	2600 psi	Lap shear, alum to alum, 1 hr @ 65°C

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	60.0 °C	140 °F	Ultimate Tg

Electrical Properties	Metric	English	Comments
Volume Resistivity	0.0088 ohm-cm	0.0088 ohm-cm	cured 1 hr @ 65°C

Processing Properties	Metric	English	Comments
Cure Time	60.0 min	1.00 hour	
	@Temperature 65.0 °C	@Temperature 149 °F	

Descriptive Properties	Value	Comments
Color	Amber	Hardener
	Silver	Resin/Mixed/Cured
Thixotropic Index	2	1 rpm/10 rpm

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