

## Tra-Con Tra-Duct 916D01 Electrically Conductive Silver-Filled Epoxy

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

### Material Notes:

TRA-DUCT 916D01 is an electrically conducting silver-filled 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 916D01 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-916D01-Electrically-Conductive-Silver-Filled-Epoxy.php](http://www.lookpolymers.com/polymer_Tra-Con-Tra-Duct-916D01-Electrically-Conductive-Silver-Filled-Epoxy.php)

Physical Properties	Metric	English	Comments
Viscosity	27000 cP	27000 cP	Mixed (cp #52, 10 rpm)
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	90	90	2 hrs @ 65°C
Adhesive Bond Strength	5.52 MPa	800 psi	Lap shear, alum to alum, 24 hrs @ 25°C
	8.62 MPa	1250 psi	Lap shear, alum to alum, 2 hrs @ 65°C
	9.31 MPa	1350 psi	Lap shear, alum to alum, 1 hr @ 110°C

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	65.0 °C	149 °F	Ultimate Tg

Electrical Properties	Metric	English	Comments
Volume Resistivity	0.00090 ohm-cm	0.00090 ohm-cm	cured 2 hrs @ 65°C

Processing Properties	Metric	English	Comments
Cure Time	60.0 - 240 min	1.00 - 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 Processing Properties	30 min Metric	30 min English	Comments
<b>Descriptive Properties</b>			
Color		Silver	
Thixotropic Index		3.3	1 rpm/10 rpm

## Contact Songhan Plastic Technology Co.,Ltd.

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