

Tra-Con Tra-Duct 916H03 Room Temperature Cure High Conductivity Silver Epoxy Adhesive

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

Material Notes:

TRA-DUCT 916H03 is recommended for electronic bonding and sealing applications that require the combination of high conductivity coupled with good mechanical properties. This two part smooth paste silver-filled epoxy adhesive is solvent free, does not contain any copper, nickel or carbon additives, and develops strong, durable electrically and thermally conducting bonds and seals between many different and dissimilar materials such as metals, ceramics, glass and plastic laminates. TRA-DUCT 916H03 cures at room temperature, and can be used as a "cold-solder" for heat-sensitive components where hot-soldering is impractical. It can also 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-916H03-Room-Temperature-Cure-High-Conductivity-Silver-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Viscosity	57500 cP	57500 cP	Mixed (cp #52, 5 rpm)

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	83	83	2 hrs @ 65°C
Adhesive Bond Strength	4.83 MPa	700 psi	Lap shear, alum to alum, 2 hrs @ 65°C
	4.83 MPa	700 psi	Lap shear, alum to alum, 24 hrs @ 25°C
	10.17 MPa	1475 psi	Lap shear, alum to alum, 1 hr @ 110°C

Thermal Properties	Metric	English	Comments
CTE, linear	42.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	23.3 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	Below Tg
	230 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	128 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	Above Tg
Glass Transition Temp, Tg	50.0 °C	122 °F	Ultimate Tg

Electrical Properties	Metric	English	Comments
Volume Resistivity	0.00010 ohm-cm	0.00010 ohm-cm	cured 1 hr @ 110°C
	0.0010 ohm-cm	0.0010 ohm-cm	cured 2 hrs @ 65°C
	0.010 ohm-cm	0.010 ohm-cm	cured 24 hrs @ 25°C

Processing Properties	Metric	English	Comments
	120 min	2.00 hour	

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

Descriptive Properties	Value	Comments
Color	Light Yellow	Hardener
	Silver	Resin/Mixed/Cured
Thixotropic Index	3	1 rpm/10 rpm

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