

Resin Technology Group TIGA 901 Room Temperature Curing Silver Conductive Epoxy

Category : Polymer , Adhesive , Thermoset , Epoxy , Epoxy Adhesive , Epoxy, Electrically Conductive

Material Notes:

100 parts resin to 6 parts hardener. Cure 24 hours at 25°C, 1-4 hours at 65°C, 30-60 minutes at 125°C, or 30 minutes at 150°C. TIGA 901 is an electrically conductive, silver filled epoxy adhesive 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. TIGA 901 cures at room temperature and can be used as a "cold-solder" for heat sensitive components where hot soldering is impractical. Applications: This product can be used for the assembly and repair of electrical modules, printed circuits, wave guides, flat cable and high frequency shields. Information provided by Resin Technology Group.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Resin-Technology-Group-TIGA-901-Room-Temperature-Curing-Silver-Conductive-Epoxy.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.50 g/cc	2.50 g/cc	
Solids Content	100 %	100 %	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	
Shear Strength	6.89 MPa	1000 psi	Cured 1 hour at 65°C, Alum/Alum
	13.1 MPa	1900 psi	Cured 60 minutes at 125°C, Alum/Alum

Thermal Properties	Metric	English	Comments
CTE, linear	25.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	13.9 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	6.05 W/m-K	42.0 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	125 °C	257 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	0.00030 ohm-cm	0.00030 ohm-cm	cured 60 minutes at 125°C
	0.0090 ohm-cm	0.0090 ohm-cm	cured 1 hour at 65°C

Electrical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Cure Time	30.0 min	0.500 hour	
	@Temperature 250 °C	@Temperature 482 °F	
	30.0 - 60.0 min	0.500 - 1.00 hour	
	@Temperature 125 °C	@Temperature 257 °F	
60.0 - 240 min	60.0 - 240 min	1.00 - 4.00 hour	
	@Temperature 65.0 °C	@Temperature 149 °F	
1440 min	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	90.0 min	90.0 min	20 gm mass
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Silver	
Outgassing	Low	
Viscosity	Smooth paste	After mixing

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China