



TIGA 901

August 2015

PRODUCT DESCRIPTION

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.

Physical Properties

| | |
|---|-----------------------|
| Color: | Silver |
| Operating Temperature Range, °C: | -60 to 125 |
| Specific Gravity: | 2.5 |
| Hardness, Shore D: | 85 |
| Thermal Conductivity BTU-in/Ft-Ft ² -°F: | 42 |
| Viscosity (after mixing) | smooth paste |
| Solids % | 100 |
| Coefficient of Expansion, cm/cm/C | 25 x 10 ⁻⁶ |
| Outgassing: | Low |

Handling Characteristics

| | |
|----------------------------|----------------|
| Mix-Ratio by Weight, | |
| Resin to Hardener: | 100 to 6 |
| Pot Life 20 gm mass @ 25°C | 90 Minutes |
| Cure Schedule @ 25°C: | 24 Hours |
| Cure Schedule @ 65°C: | 1 to 4 Hours |
| Cure Schedule @ 125°C: | 30 to 60 Mins. |
| Cure Schedule @ 150°C: | 30 Minutes |

Values after Various Cure Schedules

| Bond Line | Volume Resistivity | Tensile Shear |
|----------------|--------------------|----------------|
| Cure Schedule | ohm-cm @ 25°C | Alum/Alum, psi |
| 60 Min @ 125°C | 0.0003 | 1900 |
| 1 Hour @ 65°C | 0.009 | 1000 |

Storage

Store below 25°C out of sunlight and in original unopened containers. Refer to packaging specific quote for shelf life information.

Data Ranges

The data contained herein may be reported as a typical value and/or range. Values are based on actual test data and are verified on a periodic basis.

Note

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