

40-3911

SILVER FILLED SINGLE COMPONENT EPOXY

DESCRIPTION:

40-3911 is an electrically conductive epoxy adhesive. 40-3911 is formulated without solvents and is therefore a 100% solids system. It is highly filled with silver resulting in a volume resistivity of 5×10^{-4} ohm-cm.

This one component system cures quickly at elevated temperatures making it a suitable adhesive for many electronic assembly operations. It is a good choice for lid sealing and die bonding applications.

FEATURES:

- Electrically conductive
- Thermally conductive
- Cures quickly with heat
- One component – no mixing required
- Solvent-free

TYPICAL SPECIFICATIONS:

| | |
|---|-----------------------|
| Color | Silver |
| Mixed Viscosity | Paste |
| Pot Life, 100 gram mass @ 25 °C | 90 days |
| Specific Gravity, 25 °C/25 °C | 4.05 |
| Hardness, Shore D | 85 |
| Volume Resistivity, ohm-cm * | 5.34×10^{-4} |
| Thermal Conductivity, W/m- °K | 2.38 |
| Glass Transition Temperature | > 140 °C |
| Coefficient of Linear thermal expansion, in/in °C | 45×10^{-6} |
| Cure Schedule | |
| a) 120 °C | 60 minutes |
| b) 150 °C | 30 minutes |
| c) 160 °C | 10 minutes |
| Shelf Life | |
| 3 months @ 25 °C | |
| 6 months @ -10 °C | |
| 12 months @ -40 °C | |

* Cured @ 160 °C for 20 minutes.

STORAGE AND HANDLING:

Since settling may occur in storage, remix each container prior to use. Refrigeration during storage will minimize filler settling and help maintain viscosity and electrical conductivity. If refrigeration storage is used, to avoid condensation, allow to stabilize to room temperature before opening and using material.

IMPORTANT:

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