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 x 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 x 10^{-4}
Thermal Conductivity, W/m·°K 2.38
Glass Transition Temperature > 140°C
Coefficient of Linear thermal expansion, in/in °C 45 x 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:
EPOXIES, ETC. MAKES NO EXPRESS OR IMPLIED WARRANTIES OR MERCHANTABILITY, FITNESS OR OTHERWISE WITH RESPECT TO ITS PRODUCTS. The information in this brochure is based on data obtained by our own research and is considered reliable. However, no warranty is expressed or implied regarding the accuracy of these data, the results to be obtained from the use thereof, or that any such use will not infringe any patent. The properties given are typical values and are not intended for use in preparing specifications. This information is furnished upon the condition that the person receiving it shall make his own tests to determine the suitability thereof for his particular purpose.

06/14