



40-3910

SINGLE COMPONENT SILVER FILLED ADHESIVE

DESCRIPTION:

40-3910 is a single component, 100 % solids, heat curing electrically conductive epoxy adhesive. This versatile conductive adhesive exhibits excellent mechanical integrity and thermal stability with no chemical corrosion at elevated temperature exposure during wire bonding and soldering.

40-3910 exhibits excellent impact and vibration resistance. It is designed for use in the electrical and mechanical bonding of semiconductor, capacitor, and resistor chips in micro and opto-electronic hybrid circuit fabrication.

40-3910 is a smooth, soft paste that can be applied by hand application, automatic dispenser, screen, transfer, or stamping technique.

TYPICAL SPECIFICATIONS:

| | |
|--|---|
| Viscosity | Soft Creamy Paste |
| Pot Life, 100 gram mass @ 25°C | Single Component |
| Shelf Life | 3 Months 25°C 6 Months 0°C |
| Silver Content | 70% |
| Cure Schedule | 2 Hours @ 120°C 60 Minutes at 150°C 30 Minutes at 160°C |
| Thermal Conductivity, BTU/hr/ft ² /°F/in. | 16.2 |
| Volume Resistivity, OHM-CM | 7×10^{-3} |
| Operating Temp. Range, °C | -55 to +170 |

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.

1-800-EPOXIES (376-9437) • 401-946-5564 • Fax: 401-946-5526

21 Starline Way • Cranston, RI 02921 USA
www.epoxies.com • service@epoxies.com



SHIPPING:

40-3910 is a stable one component epoxy with a significant shelf life at room temperature. In most cases product will be shipped alone or with ice packs during summer months. Dry Ice is usually not required.

IMPORTANT:

The information in this brochure is based on data obtained by our own research and is considered accurate. 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. 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.

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