# ELECTRODAG® 5915

## One Component, Silver Filled Epoxy Adhesive For Heat Sensitive Substrates

| Key Feature | Benefit |
|---|---|
| One component | No mixing, less waste |
| Low temperature cure | Designed for heat sensitive substrates |

**Product Description :**

ELECTRODAG 5915 is a one component, silver filled, electrically conductive epoxy adhesive providing excellent bond strength and excellent resistance to common printed circuit board industry solvents.

**Applications :**

The ELECTRODAG 5915 has been designed for heat sensitive substrates such as polyester. It is ideally suited for mounting electronic components on membrane keyboard circuitry and printed circuit boards. Adhesive is compatible with polyester, polycarbonate, plain and copper laminated phenolic paper (FR2) and glass epoxy (FR4), aluminium and glass.

**Instructions For Use :**

ELECTRODAG 5915 is supplied ready for use and hence does not require dilution. Stir prior to use but avoid rapid stirring as this causes air entrapment. ELECTRODAG 5915 can be applied by dot dispensing, screen or stencil printing methods.

**Properties Of Material As Supplied :**

| Property | Test Method | Unit | Typical Value |
|---|---|---|---|
| Chemistry | | | Epoxy |
| Appearance | Visual | | Silver |
| Viscosity at 25°C | Brookfield @ 20 rpm | Pa.s | 80 – 190 |
| Density | | g/cm³ | 2 |
| Solids Content | | % | 90 - 93 |

**Cure Schedule :**

ELECTRODAG 5915 can be cured in air circulated ovens at 120°C for 30 minutes. Curing at higher temperatures (up to 150°C) will result in improved bonding strength and environmental stability (humidity stability). ELECTRODAG 5915 can also be cured by infrared.

**Properties Of Material After Application :**

| Property | Test Method | Unit | Typical Value |
|---|---|---|---|
| Volume Resistivity | | Ohm.cm | $5 \times 10^{-4}$ |
| Sheet Resistance | 25 µm dry coating thickness | Ohm/square | 0,25 |
| Tensile Lap Shear Strength | | MPa | > 6 |
| Service Temperature | | °C | 150 |

**Storage And Handling :**

Usable shelf life is 12 months from date of qualification when stored frozen. Packages removed from storage must first be allowed to return to ambient temperature before use.

| Storage Temperature (°C) | Usable Shelf Life (months) |
|---|---|
| -18 to -25 | 12 |

**Health & Safety :**

It is recommended to consult the Emerson & Cuming product literature, including material safety data sheets, prior to using Emerson & Cuming products. These may be obtained from your local sales office.

**Attention Specification Writers :**

The technical information contained herein is generally consistent with the properties of the material and should not be used in the preparation of specifications, as it is intended for reference only. This technical information has been derived from one batch of material and may not exactly match the properties of each individual delivered batch.
For assistance in preparing specifications, please contact your local Emerson & Cuming office for details. Please contact Emerson & Cuming Quality Assurance for test method details.

(ELECTRODAG® is a registered trademark of Acheson Industries Inc.)

E30/04/2004-GL

**Europe**
Nijverheidsstraat 7
B-2260 Westerlo
Belgium
℅ +(32)-(0) 14 57 56 11
Fax: +(32)-(0) 14 58 55 30

**North America**
46 Manning Road
Billerica, MA 01821
℅ 800-832-4929
℅ (978) 436-9700
Fax: (978) 436-9704

**Asia-Pacific**
100 Kaneda, Atsugi-shi
Kanagawa-ken, 243-0807
Japan
℅ (81) 462-258-880
Fax: (81) 462-221-347