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## 117-36 UV CURABLE ANISOTROPIC CONDUCTIVE ADHESIVE

**DESCRIPTION:** 117-36 is a dual curable, anisotropic conductive adhesive that is supplied at a screen-printable viscosity. This product uses ultraviolet radiation as the main curing mechanism, but the cure may be enhanced by a thermal post-cure. The overall balance of cohesion, lap shear strength, holding power, and conductivity provides a versatility that makes this product useful in a wide range of fastening and bonding applications. This product is very resistant to flexing and creasing. 117-36 is designed for bonding surface mount devices to a variety of substrates such as Mylar, glass, and other optically clear substrates.

### TYPICAL CURED PROPERTIES:

|                                    |                        |
|------------------------------------|------------------------|
| Volume Resistivity ( $\Omega$ -cm) |                        |
| (X, Y Axis)                        | 1x10 <sup>12</sup>     |
| (Z Axis)                           | 0.0001                 |
| Consistency                        | Screen-printable paste |
| Crease Resistance                  | Excellent              |
| Hardness (Shore D)                 | 45                     |
| Elongation (%)                     | 250                    |
| Moisture Resistance                | Excellent              |

**SUGGESTED HANDLING & CURING:** 117-36 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of CMI Thinner #102-03 and/or butyl cellosolve acetate. Best properties for most applications result when cured using a 200-300 watt/inch mercury vapor lamp, followed by a post cure for several minutes at 150°C to 180°C. Typical cure time varies from a few seconds to a minute, depending on the amount of energy available. Good properties are obtained on a variety of substrates by curing using a 200-300 watt/inch mercury vapor lamp, followed by a post cure for at temperatures ranging from 50°C to 180°C. End user is advised to experimentally determine temperature and time best suited for individual applications.

**STORAGE:** Shelf Life: 6 months at 25°C, when kept in a sealed opaque container.

**SAFETY & HANDLING:** Use with adequate ventilation. Keep away from sparks and open flames. Avoid prolonged contact with skin and breathing of vapors. Wash with soap and water to remove from skin.

All technical information is based on data obtained by CMI personnel and is believed to be reliable. No warranty is either expressed or implied with respect to results or possible infringements on patents.

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