



Creative Materials, Inc.  
141 Middlesex Road  
Tyngsboro, MA 01879

T 978.649.4700  
F 978.649.2040

## **107-02 FLEXIBLE ELECTRICALLY CONDUCTIVE ADHESIVE**

**DESCRIPTION:** 107-02 is a flexible electrically conductive adhesive. This product features excellent adhesion to Kapton®, Mylar®, glass and a variety of other substrates. Unlike conventional conductive materials, this product is very resistant to flexing and creasing. Product can be re-bonded many times by simply applying heat and slight pressure. Some applications for 107-02 include, but are not limited to, electrical attachments for surface mounted devices and heat-sealing openings in emi/rfi enclosures. 107-02 is useful for applications requiring flexibility at very low temperatures. 107-02 features a higher glass transition temperature than the conventional 106-48.

### **TYPICAL CURED PROPERTIES:**

Consistency	Liquid
Filler	Silver
Crease Resistance	Excellent
Volume Resistance ( $\Omega$ -cm)	0.001
Sheet Resistivity ( $\Omega$ /sq./mil)	0.4
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range ( $^{\circ}$ C)	-55 to 120
Thermal Stability ( $^{\circ}$ C)	Good to 200

**SUGGESTED HANDLING & CURING:** 107-02 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of CMI Thinner #203. Prior to using, be certain to re-suspend silver. Best properties, for most applications, result when dried several minutes at 100 $^{\circ}$ C followed by curing for 5-10 minutes at 175 $^{\circ}$ C. Good properties are obtained on a variety of substrates by curing at temperatures ranging from 50 $^{\circ}$ C to 175 $^{\circ}$ C. When used as a sealant, apply adhesive to surfaces to be bonded and dry for several minutes at 150 $^{\circ}$ C, then place substrates together while heating and applying slight pressure. End user is advised to experimentally determine temperature and time best suited for individual applications.

**STORAGE:** Shelf life: 6 months at 25 $^{\circ}$ C; or 9 months at 5 $^{\circ}$ C; or 12 months at -10 $^{\circ}$ C.

**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 suitability in a particular application or possible infringements on patents.*