



Creative Materials, Inc.  
12 Willow Road  
Ayer, MA 01432

T 978.391.4700  
F 978.391.4705

## 107-25

### CARBON FILLED, ELECTRICALLY CONDUCTIVE ADHESIVE

**DESCRIPTION:** 107-25 is a flexible, carbon-filled, 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 107-25 include, but are not limited to, electrical attachments for surface mounted devices, heat sealing openings in EMI/RFI enclosures, and static dissipation. 107-25 is useful for applications requiring flexibility at very low temperatures.

#### TYPICAL CURED PROPERTIES:

Consistency	Paste
Filler	Carbon
Crease Resistance	Excellent
Volume Resistance ( $\Omega$ -cm)	0.2
Sheet Resistivity ( $\Omega$ /sq./mil)	50
Solderable	No
Hydrolytic Stability	Excellent
Glass Transition Temperature ( $^{\circ}$ C)	72
Useful Temperature Range ( $^{\circ}$ C)	-55 to 140
Thermal Stability ( $^{\circ}$ C)	Good to 325

**SUGGESTED HANDLING & CURING:** 107-25 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of CMI Thinner #102-03. Prior to using, be certain to resuspend fillers. Best properties, for most applications, result when processed under the following conditions. Apply the adhesive to surfaces to be bonded and dry for 5 minutes at 125 $^{\circ}$ C, then place substrates together while heating and applying pressure. A temperature of 175 $^{\circ}$ C and pressure of 100 psi is recommended. It is preferable to allow the adhesive to cool to room temperature, before removing the pressure. End user is advised to experimentally determine temperature and pressure 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.

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