



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

T 978.649.4700
F 978.649.2040

119-28

FLEXIBLE, PAD-PRINTABLE, ELECTRICALLY CONDUCTIVE, CARBON INK

DESCRIPTION: 119-28 is an extremely flexible, pad printable, electrically conductive, carbon filled ink, coating and adhesive suitable for application by pad printing, dipping and syringe dispensing. This product features excellent adhesion to Kapton, Mylar, glass and a variety of other surfaces. Unlike conventional conductive materials, this product is very resistant to flexing and creasing. Some applications for 119-28 include, but are not limited to, polymer thick film circuitry and membrane switches. 119-28 is a pad-printable version of 108-46.

TYPICAL CURED PROPERTIES:

| | |
|--|---------------|
| Viscosity (cps.) | 10,000-12,000 |
| Filler | Carbon |
| Crease Resistance | Excellent |
| Sheet Resistivity, max. (Ω /sq/mil.) | 50 |
| Glass Transition Temperature ($^{\circ}$ C) | 75 |
| Hydrolytic Stability | Excellent |
| Useful Temperature Range ($^{\circ}$ C) | -55 to +200 |
| Thermal Stability ($^{\circ}$ C) | Good to 325 |

SUGGESTED HANDLING & CURING: 119-28 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of CMI Thinners #113-39, or 114-20. Prior to using, be certain to resuspend filler. Best properties, for most applications, result when cured for 10 minutes at 105 $^{\circ}$ C. Good properties are obtained on a variety of substrates by dry and curing at temperatures ranging from 50 $^{\circ}$ C to 180 $^{\circ}$ C. End user is advised to experimentally determine temperature and time best suited for individual applications.

STORAGE: Shelf Life: 12 months at 25 $^{\circ}$ 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 results or possible infringements on patents.

REVISION DATE: 9/12/97 REVISION: A