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## 118-27

### PAD-PRINTABLE, OPAQUE BLACK, SOLDER MASK

**DESCRIPTION:** 118-27 is an opaque black, pad-printable, one component, epoxy, solder mask. This product features excellent adhesion to Kapton, Mylar, aluminum, FR-4 boards, glass and a variety of other substrates. Unlike conventional dielectric materials, this product is very resistant to abrasion, scratching, and thermal aging. Applications for 118-27 include, but are not limited to, solder resistant coatings for electrical and electronic devices. 118-27 is designed for pad-printing onto complex geometry surfaces.

#### TYPICAL PROPERTIES:

Viscosity (cps)	10,000-12,000
Dielectric Strength (Volts/mil)	1300
Dielectric Constant (100Hz)	4.0
Volume Resistivity (ohm-cm)	$1 \times 10^{16}$
Pencil Hardness	6H (min.)
Glass Transition Temperature (°C)	160
Hydrolytic Stability	Excellent

**SUGGESTED HANDLING AND CURING:** 118-27 is ready to use as supplied. Prior to using, be certain to resuspend filler. Further thinning may be accomplished by adding small amounts of CMI Thinner # 113-39. Best properties, for most applications, result when cured for 1 hour at 125°C, or 30 minutes at 150°C. Good properties are obtained on a variety of substrates by curing at temperatures ranging from 125°C to 185°C. End user is advised to experimentally determine temperature and time best suited for individual applications.

**STORAGE:** Shelf life 2 months at 25°C; or 6 months at -10°C.

**SAFETY AND 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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