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118-41

SOLVENT-RESISTANT ELECTRICALLY CONDUCTIVE INK

DESCRIPTION: 118-41 is a solvent-resistant, screen-printable, electrically conductive ink and coating. This product features excellent adhesion to Kapton, Mylar, glass, polycarbonate and a variety of other substrates. Unlike conventional conductive materials, this product is very resistant to acetone and methyl ethyl ketone (MEK). It is also very resistant to scratching and creasing. Some applications for 118-41 include, but are not limited to, emi/rfi shielding of polyimide flexible circuits, polymer thick film circuitry, membrane switches, electrical attachments for surface mounted devices, and anode coatings for tantalum capacitors. 120-24 is a 50 Ω /sq/mil carbon version of this product.

TYPICAL CURED PROPERTIES:

Viscosity (cps)	18,000
Filler	Silver
Percent Silver (cured)	> 89
Crease Resistance	Excellent
Volume Resistance (ohm-cm)	0.000025
Sheet Resistivity (ohm/sq./mil)	0.010
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range (°C)	-55 to 200
Thermal Stability (°C)	Good to 325

SUGGESTED HANDLING & CURING: 118-41 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of CMI Thinner #203 and/or Thinner # 113-12. Prior to using, be certain to re-suspend silver. Best properties, for most applications, result when cured for 45 minutes at 165°C or 30 minutes at 175°C. End user is advised to experimentally determine temperature and time best suited for individual applications.

STORAGE: Shelf life: 3 months at 25°C; or 6 months at 5°C; or 12 months at -10 °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.

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