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121-35

CARBON FILLED, POLYIMIDE BASED, CONDUCTIVE INK FOR PRINTED RESISTORS AND POTENTIOMETERS

DESCRIPTION: 121-35 is a high temperature resistant, carbon filled, polyimide based, electrically conductive ink/coating for application by screen-printing, dipping and syringe dispensing. The product features excellent adhesion to Kapton, glass and a variety of other substrates. Unlike conventional conductive materials, this product is very resistant to abrasion and scratching. Some applications for 121-35 include, but are not limited to, printed resistors, potentiometers, emi/rfi shielding of polyimide flexible circuits, polymer thick film circuitry, and membrane switches.

TYPICAL PROPERTIES:

Viscosity (cps) 17,000 – 20,000

Filler Carbon Volume Resistance (Ω -cm) 0.05 Sheet Resistivity (Ω /square/mil) 20

Hydrolytic Stability Excellent
Useful Temperature Range (°C) -55 to 210

SUGGESTED HANDLING & CURING: 121-35 is ready to use as supplied but requires mixing prior to use. 121-35 will exhibit highly thixotropic properties during storage. Further thinning may be accomplished by adding CMI#102-03 Thinner. Prior to use, be certain to mix well to resuspend filler. **Best properties**, for most applications, result when cured for 1 hour at 200°C. Good properties are also obtained on a variety of substrates by curing for 30 minutes at 175°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 3 months at 5°C, or 6 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.