CI-2036

Carbon Ink for Print Treat Non-Print Treat PET

DESCRIPTION

CI-2036 is a carbon conductive ink designed to adhere to print treated and non-print treated polyester. **CI-2036** adheres to a wide spectrum of substrates including print treated and non-print treated polyester, paper, and most plastic films. **CI-2036** is application ready with no dilution needed.

ADVANTAGES

- ✓ Stable resistance
- ✓ Excellent adhesion
- ✓ Superior flexibility
- ✓ Extended screen residence
- ✓ No dilution required
- ✓ Low application weights
- ✓ Fast curing
- ✓ Excellent printability

TYPICAL UNCURED PROPERTIES

Color	Black
Appearance	Thixotropic paste
Total Solids Content	45.6 %
Density	9.7 lbs/gallon
Flash Point	212°F (100°C) Tag Close Cup
VOC	634.5 grams of solvent/liter
Theoretical Coverage	596.1 ft^2/Gal/Mil 12.6 m^2/kilogram/25.4 microns

TYPICAL CURED PROPERTIES

Electrical Resistance	1000 Ohms/Square @ 1.0 Mil +/- 20% (Cured at 10 Minutes at 230°F)

APPLICATION INFORMATION

- Typical screens used are 180 - 220 mesh with a 1.0 mil emulsion.
- Stainless steel fabric can be used to increase dry film thickness.
- Complete cure can be confirmed by recuring the print a second time and testing the electrical resistance. The electrical resistance should not decrease by more than 5%.
- Typically, it is not possible to over cure **CI-2036**. Added curing will improve the flexibility and conductivity properties.
- **CI-2036** can also be cured with infrared energy. This method often provides improved properties over conventional heat curing.
- **CI-2036** can be blended with a resistance modifier to increase electrical resistance values. Please contact a Polymark technical service professional for recommendations.

CURE SCHEDULE

CI-2036 does not require any leveling time and can be forced cured immediately after printing. Typical forced curing is for 10 minutes at 230 ^{o}F. Various time and temperature combinations can be used.

CLEAN UP

CI-2036 can be cleaned up with M.E.K (Methyl Ethyl Ketone) or a blend of solvents that will completely clean a cured film. Screens and printing tools should be allowed to dry completely before reuse. To avoid possible squeegee swelling, a solvent resistant material such as polyurethane should be used. Typically a high durometer squeegee will provide the best results.

STORAGE AND HANDLING

- Shelf life is six (6) months in an unopened container when stored below 70^{o}F.
- Store product below 70^{o}F for maximum shelf life and minimal solvent loss. Avoid high temperature exposure.
- It is suggested that the product be stored at 55^{o}F to increase shelf life. The product must be conditioned back to room temperature before use.

HEALTH AND SAFETY

- Use with adequate ventilation.
- Avoid skin contact.
- If ingested, consult a physician immediately.
- Consult the product Material Safety Data Sheet for additional information.