21.

ELECTRICALLY CONDUCTIVE PAINT.

GENERAL INFORMATION

The conductive paints are formulated to provide good adhesion to almost any plastic substrate.

Only minimal surface preparation is required prior to spraying. The resulting finish is resistant to abrasion and unimpaired by humidity and heat.

The coating adherence meets the current standards and specifications of the electronics industry.

FEATURES AND BENEFITS

- A specially selected resin matrix binds the conductive material to the surface while permitting the establishment of an efficient conductive network.
- Resin-bonding eliminates a problem encountered with shielding techniques based on metal alone: flaking due to differences in thermal coefficient of expansion.
- Conductive paint coatings expand without loss of coating integrity.
- Furthermore, the resin protects the conductive pigment from oxidative attack, as well as from physical damage.

CP-00

Sprayable silver paint for use on plastic substrates. It is unique in that it is formulated in very mild solvents that can tolerate higher built-in stresses which can be found on molded parts.

This product offers effective shielding at less than 0.5 mil (12.5 µ) dry film thickness.

The dried conductive film is extremely hard, tough and durable.

CP-00 contains no methyl ethyl ketone (MEK) or other strong solvents which can attack solvent-sensitive substrates, such as polycarbonate and polycarbonate blends. It is designed with a fast drying solvent blend which is desirable in high volume production.

Percent Solids	47 ± 1.5% by weight
Density	1.38
Viscosity (as supplied)	thixotropic mixture
Dilution	1:1 by volume
Resistivity	less than 0.015 Ohm/cm at 0.5 mil (12.5 µ) dry film thickness
Environmental testing	no change in resistivity after 7 day exposure to 85 °C at 85% R.H.
RCA Abrader	more than 500 turns at 1.0 mil dry film with 55 g weight
Coverage	18.40 m^2 / Liter at 0.5 mil (12.5 µ) dry film thickness
Shelf life	Nine (9) month from date of manufacture

CP-01

Sprayable hybrid paint for use on plastic substrates. It is unique in that it is formulated in very mild solvents that can tolerate higher built-in stresses which can be found on molded parts.

This product offers effective shielding at less than 0.5 mil (12.5 µ) dry film thickness.

The dried conductive film is extremely hard, tough and durable.

CP-01 contains no methyl ethyl ketone (MEK) or other strong solvents which can attack solvent-sensitive substrates, such as polycarbonate and polycarbonate blends. It is designed with a fast drying solvent blend which is desirable in high volume production.

Percent Solids	25 ± 1% by weight
Density	1.11
Viscosity (as supplied)	thixotropic mixture
Dilution	not necessary, but if required than MEK to use
Resistivity	less than 0.1 Ohm/cm at 1.0 mil (25 µ) dry film thickness
Environmental testing	no change in resistivity after 7 day exposure to 85 °C at 85% R.H.
RCA Abrader	more than 500 turns at 1.0 mil dry film with 55 g weight
Coverage	9.9 m^2 / Liter at 1.0 mil (25 µ) dry film thickness
Shelf life	Nine (9) month from date of manufacture

CP-02

Sprayable silver copper loaded paint for use on plastic substrates. It is unique in that it is formulated in very mild solvents that can tolerate higher built-in stresses which can be found on molded parts.

This product offers effective shielding at less than 1.0 mil (25 µ) dry film thickness.

The dried conductive film is extremely hard, tough and durable.

CP-02 contains no methyl ethyl ketone (MEK) or other strong solvents which can attack solvent-sensitive substrates, such as polycarbonate and polycarbonate blends. It is designed with a fast drying solvent blend which is desirable in high volume production.

Percent Solids	25 ± 1% by weight
Density	1.11
Viscosity (as supplied)	thixotropic mixture
Dilution	not necessary, but if required than MEK to use
Resistivity	less than 0.1 Ohm/cm at 1.0 mil (25 µ) dry film thickness
Environmental testing	no change in resistivity after 7 day exposure to 85 °C at 85% R.H.
RCA Abrader	more than 500 turns at 1.0 mil dry film with 55 g weight
Coverage	9.9 m^2 / Liter at 1.0 mil (25 µ) dry film thickness
Shelf life	Nine (9) month from date of manufacture

CP-03

A new finer particle sprayable hybrid paint for use on plastic substrates. It is formulated to compete with nickel in conductivity without creating environmental issues.

It is unique in that it is formulated in very mild solvents that can tolerate higher built-in stresses which can be found on molded parts.

This product offers effective shielding at less than 1.0 mil (25 µ) dry film thickness.

The dried conductive film is extremely hard, tough and durable.

CP-03 contains no methyl ethyl ketone (MEK) or other strong solvents which can attack solvent-sensitive substrates, such as polycarbonate and polycarbonate blends. It is designed with a fast drying solvent blend which is desirable in high volume production.

Percent Solids	19 ± 1% by weight
Density	1
Viscosity (as supplied)	thixotropic mixture
Dilution	20 - 25% with ethyl alcohol
Resistivity	less than 0.1 Ohm/cm at 1.0 mil (25 µ) dry film thickness
Environmental testing	no change in resistivity after 7 day exposure to 85 °C at 85% R.H.
RCA Abrader	passes 500 + cycles
Coverage	5.9 m^2 / Liter at 1.0 mil (25 µ) dry film thickness
Shelf life	Nine (9) month from date of manufacture