



ORGACON™ conductive polymer screen-printing inks

Orgacon conductive polymer screen-printable inks are based on conductive polymer PEDOT/PSS and enable patterning of transparent conductive structures from plain down to resolution of 100 microns on flexible and rigid substrates such as PET, PC, PMMA, PI, and glass. Orgacon EL-P inks can achieve excellent characteristics such as flexibility and formability for electrodes of electroluminescent lamps, capacitive touch sensors, and membrane switches.

Overview

| Designation | Typical applications | SER @ P120 (Ohm/square) | SER x OD * ASTM D 1003 | Viscosity (Pas) |
|-------------|--|----------------------------|---------------------------|--------------------|
| EL-P3145 | Patterned transparent conductive structures for EL and touch applications | 350 | 8 | > 14 |
| EL-P3155 | Enhanced stability. Patterned transparent conductive structures for LED-backlit capacitive sensors | 400 | 11 | > 14 |
| EL-P3165 | Enhanced stability. Patterned transparent conductive structures for LED-backlit capacitive sensors for long-run printing | 375 | 11 | > 40 |
| EL-P5015 | Patterned transparent conductive fine structures for EL and touch applications, OPV ITO substitution | 190 | 18 | > 50 |

* Lower value for SER x OD (Optical Density) indicates higher opto-electrical performance

Properties

- Solid content 2.5 – 5.5% wt.
- Color dark blue
- Shelf life 12 months after fabrication date

Storage

- Store the product between 4°C and 25°C

Health and Safety

- See Material Safety Data Sheet

Processing recommendations

- Use polyester or stainless steel mesh. Water and solvent resistant capillary film or emulsion
- Do not require dilution
- Curing at 130-120°C during 2-3 minutes for maximal conductivity. Minimum 80°C
- Contact us for processing guidelines

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