POLYMER SILVER CONDUCTOR 1901-SB

RoHS Compliant*
Polymer Silver For Low Temperature Substrates

ESL 1901-SB is a silver-filled, flexible resin material designed for use as a conductor on low-temperature substrates. This silver conductor may be used in the manufacture of four and five wire analogue resistive touch panels, for printed antennas in RFID applications and as conductors in flexible solar cells. After screen-printing and curing the silver film remains reasonably flexible, resistant to corrosion and acetone with the resistance of the conductor remaining constant over time. This versatile polymer has also been successfully used on other substrates such as cloth.

PASTE DATA

Rheology: Thixotropic, screen-printable paste

Viscosity: 25 ± 10 Pa.s
(Brookfield RVT, 1 rpm, No. 6 spindle, 25.5 ± 0.5 °C)

Shelf Life (at 5 - 25 °C): 6 months

PROCESSING

Screen Mesh, Emulsion: 250 S/S, 10 µm

Curing Schedule: 125°C / 20 min

Substrate for Calibration: Alumina

Thinner: ESL 659
TYPICAL PROPERTIES

Cured Thickness:
(measured on a 427 mm x 2.4 mm conductor track)  5 - 15 µm

Approximate Coverage:  100 cm²/g

Resistivity:
(measured on a 427 mm x 2.4 mm conductor track)  < 100 mΩ/□

*None of the six substances referred to in the RoHS Directive (2002/95/EC) are used in the formulation of this product.

CAUTION: Proper industrial safety precautions should be exercised in using these products. Use with adequate ventilation. Avoid prolonged contact with skin or inhalation of any vapours emitted during use or heating of these compositions. The use of safety eye goggles, gloves or hand protection creams is recommended. Wash hands or skin thoroughly with soap and water after using these products. Do not eat or smoke in areas where these materials are used. Refer to appropriate MSDS sheet.

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