



ESL ELECTROSCIENCE

CERAMIC TAPES &
THICK-FILM MATERIALS

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POLYMER SILVER CONDUCTOR

1901-H1

RoHS Compliant*

ESL 1901-H1 is a silver-filled, flexible resin material designed for use as a conductor on low-temperature substrates. This silver conductor may be used on most plastic / flexible substrates.

PASTE DATA

Rheology: Thixotropic, screen-printable paste

Viscosity:
(Brookfield RVT, 10 rpm,
No. 7 spindle, 25.5 ± 0.5 °C) 50 ± 10 Pa.s

Shelf Life:
(at 5°C refrigeration recommended) 6 months

PROCESSING

Screen Mesh, Emulsion: 200 or 325 S/S, 25 µm

Levelling Time (20°C): 5 - 10 min

Drying Time (at 125°C): 10 - 15 min

Curing Schedule:
Optimum: 60°C / 10 min
125°C / 30 min

Substrate for Calibration: 96% alumina

Thinner and Screen Clean Up: ESL 419

ESL Europe 1901-H1 0012-A

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See Caution and Disclaimer on other side.

TYPICAL PROPERTIES

Cured Thickness:

(measured on a 2 mm x 2 mm pad on 96% alumina)

18 - 28 μm

Approximate Coverage:

100 cm^2/g

Resistivity:

(measured on a 100 mm x 0.25 mm conductor track)

15 - 25 $\text{m}\Omega/\square$

Printing Resolution:

(line/space)

0.250 mm / 0.250 mm

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*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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