Polymer Silver Conductor
1112-S

Application
1112-S is a silver-filled, thermoplastic acrylic resin material designed for use as a conductor on low-temperature substrates. This silver conductor may be used on flexible substrates.

Conductor 1112-S is formulated and processed to be RoHS compliant.

Typical Formulation Properties
Rheology: Thixotropic, screen printable paste
Viscosity: 60 ± 5 Pa.s at 25.5 ± 0.5 °C when measured using a Brookfield RVT, 10 rpm, ABZ spindle.

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

Typical Process Parameters

Thinning: This paste is formulated at the appropriate viscosity for the intended application. Thinner 419 may be used to replace solvent loss.

Printing: A 200 or 325 mesh stainless steel screen with ~25 µm thick emulsion is recommended.

Typical Properties:
Cured Thickness: 23 ± µm
(measured on a 2 mm x 2 mm pad on 96% alumina)

Approximate Coverage: 100 cm²/g

Resistivity: 15 – 40 mΩ/sq.
(measured on a 100 mm x 10 mm conductor track)

Printing Resolution: 0.250 mm/0.250 mm (line/space)

Levelling Time (20 °C): 5 – 10 min
Drying Time (at 125 °C): 10 – 15 min
Curing Schedule:
80 °C/1 h
125 °C/30 min
Optimum: 125 °C/30 min
Substrate for Calibration: 96% alumina

EU RoHS Directive 2011/65/EU

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