Polymer Silver Conductor
1120

Application
1120 is a silver-filled resin material designed for use as a conductor on low-temperature substrates. This silver conductor may be used on flexible substrates using roller applications.

Conductor 1120 is formulated and processed to be RoHS compliant.

Typical Formulation Properties

Rheology: Thixotropic, screen printable paste
Viscosity: 4.5 ± 1 Pa.s at 25.5 ± 0.5 °C when measured using a Brookfield RVT, 10 rpm, No. 4 spindle.

Storage and Shelf Life:
(at 0 – 5 °C, refrigeration recommended) 6 months

Typical Process Parameters

Thinning: This paste is formulated at the appropriate viscosity for the intended application. Thinner 1120 may be used to replace solvent loss.

Drying Time (at 125 °C): 1 - 2 min

Curing Schedule: 150 °C/30 min
Substrate for Calibration: Mylar™

Typical Properties:

Cured Thickness: 35 ± 5 µm
(measured on a 100 mm x 10 mm conductor track)

Approximate Coverage: 35 cm²/g
(at 35 µm cured thickness)

Resistivity: < 20 mΩ/sq.
(measured on a 100 mm x 10 mm conductor track)

Resistance to Acetone: Good

Flexibility: (to BS EN ISO 1519:1995)
Good, no cracking with 4 mm cylindrical mandrel.

Adhesion: (to DIN 53151) Grade 0

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