

## CONDUCTIVE COPPER INK

Nanopaint's **CoPInk01NP**<sup>®</sup> is a screen-printing copper conductive ink that can be also used for in-mold electronics due to its bendable properties. The **CoPInk01NP**<sup>®</sup> can be printed on a variety of substrates such as PVC, PET, TPU, polycarbonate, polyacrylates, acrylates, and polyurethane.

### INK FEATURES

- |  |                       |
|--|-----------------------|
| ✓ Bendable   | ✓ Of easy cleaning    |
| ✓ Low-temperature curing                             | ✓ Fast curing         |
| ✓ Easy screen printable                              | ✓ Easy processability |
| ✓ Suitable for thermoforming & high pressure forming | ✓ Flexible            |

### INK PROPERTIES

Apparency	Copper/Orange
Cure processing	Thermal cure
Viscosity	4000 – 8000 cP
Sheet Resistance	<3 Ω/sq
Volume Resistivity	<7 mΩ.cm

### HANDLING PROPERTIES

Processing	Stir with a spatula before using
Printing equipment	Screen printer, doctor blade printing
Screen meshes	55-120T polyester mesh
Squeegee Hardness	60-75A
Drying conditions	60-100°C for 5 minutes
Substrates	Glass, PET, PVC, PC, PMMA, TPU, Textile
Clean-up solvent	Nanopaint's cleaning solvent <b>Clear100NP</b> on press wash and mesh opener
Storage	Should be kept well sealed, in a cool and dry place, and away from direct sunlight.
Shelf-life	Ink in an unopened container has a recommended shelf life of 4 months from the date of delivery

