

Nanopaint PR Ink

Piezoresistive Inks for Printed Electronics

Due to the inherent properties of the Nanopaint piezoresistive ink, there is no need for any specific or expensive post treatment process to activate their electroactive proprieties. It can therefore be processed on various substrates, such as glass, PET, MELINEX or textile, by various techniques:

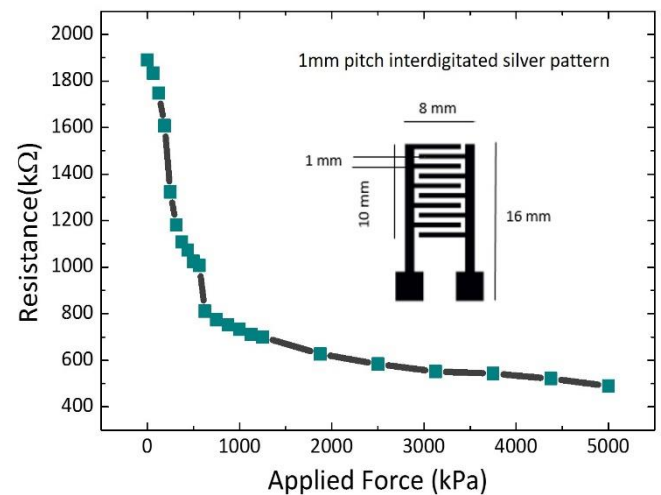
- Screen printing
- Doctor blade printing
- Spray printing
- Stencil printing

Nanopaint piezoresistive ink is easily solubilized in various solvents, showing unique properties such as:

- Strong variation of the electrical resistance upon mechanical deformation
- Allows the implementation of deformation and force sensors and sensor matrixes on both rigid, flexible and stretchable substrates
- Low cost solution
- Low material and processing cost
- High flexibility and stretchability allowing truly innovative flexible sensors

- Tight quality control to ensure reproducibility
- Custom formulation for each printing need.

Resistance vs. force for a 15 µm thickness screen printed film



Instructions:

Place the ink in ultrasonic bath around 60 minutes.
Then place it in a mechanical stirring between 30-60 minutes.
The ink is ready to be used.

	Unit	Internal tests
Physical form		Solution
Cure processing		Thermal cure
Temperature	°C	60
Time	minutes	10
Viscosity	cPoise	10-20.000
Average diameter of the nanotubes	nm	< 10
Average length of the nanotubes	µm	< 5
Expiration date after opening	Months	6

* For other specifications, please contact us.