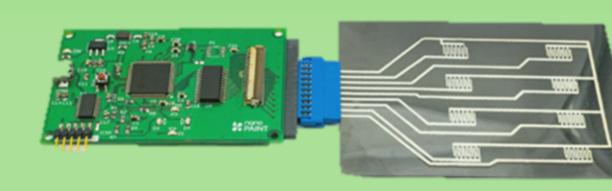




Piezo resistive ink







MAGRON Piezoresistive ink

InkPR02NP is easily solubilized in various solvents, showing unique properties. There is no need for any specific or expensive post-treatment process to activate their electroactive proprieties. It can be processed on various substrates.

INK FEATURES

✓ Carbon-based	✓ Piezoresistive
✓ Face to face printing	✔ Flexible
✓ Strong variation of the electrical resistance	✓ Stretchable

INK PROPERTIES

Apparency	Black
Physical form	Solution
Cure processing	Thermal cure
Solid content (%)	35%
Viscosity	5,000 - 10,000 cP
Max. particle diameter (µm)	<10

HANDLING GUIDELINES

Processing	Stir vigorously with a spatula
Printing equipment	Screen printer, doctor blade printing, Stencil printing
Mesh count, (Th/cm)	55 – 63
Stencil	40 microns
Squeegee hardness	60-75 Shores
Cure conditions	60°C for 10 minutes in a regular or ventilated oven
Clean-up solvent	cleaning solvent
Substrates	Glass, PET, PEN, MELINEX, Milar ()
Storage	Should be kept well sealed in its container, away from direct sunlight and stored at a controlled temperature between 10 - 20°C
Shelf-life	Ink in an unopened container has a recommended shelf life of 3 months from the date of delivery





MAGRON Solvent free Piezoresistive ink

SFInkPR03NP is a screen printable solvent-free and carbon-based piezoresistive ink. It is a low-temperature curable ink that is flexible on an appropriate substrate. The ink can be used for pressure sensors for printed electronic applications.

INK FEATURES

✓ Carbon-based	✓ Piezoresistive
✓ Temperature resistance	✓ Flexible
✓ Low temperature curable	✓ Stretchable on an appropriate substrate
✓ Easy screen printable	✓ Not harmful for health
✓ Of easy cleaning	✓ Applied to a variety of materials

INK PROPERTIES

Apparency	Dark grey/Black
Cure processing	Thermal cure
Solid content (%)	35%
Viscosity	15,000 - 20,000 cP
Piezoresistive response:	0-1,000N
Max. particle diameter (µm)	<15

HANDLING GUIDELINES

Processing	Stir vigorously with a spatula
Printing equipment	Screen printer, doctor blade printing
Mesh count, (Th/cm)	61 – 80
Squeegee hardness	60-75 Shores
Cure conditions	100°C for 10 minutes in a regular or ventilated oven
Clean-up solvent	cleaning solvent
Substrates	Textile (Cotton 100%, cotton mixed with synthetic fibers, elastic substrates)
Storage	Should be kept well sealed in its container, away from direct sunlight and stored at a controlled temperature between 15 - 35°C
Shelf-life	Ink in an unopened container has a recommended shelf life of 3 months from the date of delivery





MAGRON PR Ink

Piezoresistive Inks for TEXTILES E-TeXPR01NP

E-TeXPR01NP_® is a screen printable carbon-based piezoresistive ink. It is a low-temperature curable ink with high elasticity and flexibility, ideal for textile substrates. The ink can be used for pressure sensors for printed electronic applications.

INK FEATURES

✓ Carbon-based	✓ Piezoresistive
✓ Temperature resistance	✔ Excellent elasticity and flexibility
✓ Low temperature curable	✓ Soft and velvety touch
✓ Easy screen printable	✓ Not harmful for health
✓ Of easy cleaning	✓ Direct textile printing
✓ High stability in the screen	

INK PROPERTIES

Apparency	Dark grey/Black
Cure processing	Thermal cure
Solid content (%)	45%
Viscosity	8,000 - 12,000 cP
Max. particle diameter (µm)	<15

HANDLING GUIDELINES

Processing	Stir vigorously with a spatula
Printing equipment	Screen printer, doctor blade printing
Mesh count, (Th/cm)	55 - 77
Squeegee hardness	60-75 Shores
Cure conditions	130°C for 5 minutes in a regular or ventilated oven
Clean-up solvent	cleaning solvent
Substrates	Textile (Cotton 100%, cotton mixed with synthetic fibers, elastic substrates)
Storage	Should be kept well sealed in its container, away from direct sunlight and stored at a controlled temperature between 15 - 35°C
Shelf-life	Ink in an unopened container has a recommended shelf life of 3 months from the date of delivery



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