PIEZORESISTIVE INK FOR TEXTILES

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

INK PROPERTIES

Apparency	Dark grey/Black
Cure processing	Thermal cure
Solid content (%)	45%
Viscosity	8 000 – 12 000 cP
Max. particle diameter (µm)	<15
Coverage	75 m^2/kg

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	MAGRON cleaning solvent **Clear100NP**
Substrates	Textile (Cotton 100%, cotton mixed with synthetic fibres, elastic substrates)
Storage	Should be kept well sealed in its container, away from direct sunlight and stored at a controlled temperature between 15 - 35ºC
Shelf-life	Ink in an unopened container has a recommended shelf life of 3 months from the date of delivery

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