

PIEZORESISTIVE INK FOR TEXTILES

Nanopaint's 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



NanoPaint, Lda.

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Website: www.nanopaint-tech.com Email: info@nanopaint-tech.com

Safety Data Sheets (SDS) are available by emailing us or contacting your sales representative. Always consult the appropriate SDS before using any of our products.

The information and the products are for use by technically skilled people at their own discretion and risk and do not relate to the use of this product in combination with any other substance or any other process.



Clean-up solvent	Nanopaint's 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 - 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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