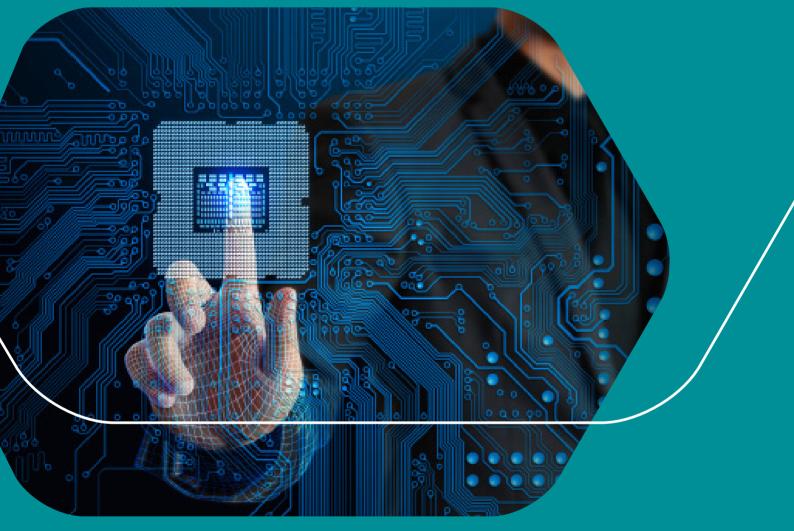
Creating Material Change



HDPlas[®] IGSR00012

Sensitive Pressure Sensor Ink Technical Data Sheet



Innovation underpins everything we do www.haydale.com J HaydaleGraphene

Haydale Sensitive Pressure Sensor Ink

Product name: Synonyms: Chemical family: Properties: Typical Uses: HDPlas[®] IGSR00012 Graphene ink, GNP ink Piezoresistive ink, pressure sensitive ink Insulating, piezoresistive Pressure sensors

Key features:

- Contain functionalised HDPlas[®] Graphene Nanoplatelets (GNPs)
- Designed for screen printing
- Piezoresistive (at multiple layers)
- Carbon, organic solvent-based ink (no metal)
- Curable at 100-130°C
- Can be applied to a variety of materials
- Flexible on appropriate substrate
- Part of a range of piezoresistive inks

Solids content: Viscosity:	18% High to medium press ready. Thinner - THN00001
Stencil:	HD200, HD220 emulsion - 20 mic stencil or 25 mic capillary film
Coverage:	30m ² per kg
Squeegee shore:	70 shore hardness
Piezoresistive response:	10N – 100N Force

Handling guidelines	
Printing equipment	Screen printer; semi-automatic, manual, fully automatic, reel to reel
Mesh count	Meshes of 61 - 120 threads per cm
Substrates	PET, PETE, PETG, PVC, Vinyl, Polyester +
Drying conditions	Can be dried at 130°C for 3-4 minutes infrared or gas drying tunnel
Clean-up solvent	IMC00001 On Press Wash and Mesh opener Warning - do not use other screen cleaners as this may result in the ink gelling and the mesh blocking prematurely
Storage	When not in use, the product should be kept sealed in its container and stored at controlled temperatures between 7-20°C Warning - do not allow to freeze
Shelf life	Ink in an unopened container has a recommended shelf life of 6 months from date of delivery

All values reported here are results of experiments conducted in our laboratories and are intended to illustrate the products performance. They are not intended to represent the final product specifications.

Health and Safety

These inks are intended for research and industrial use by trained personnel. It is important for workers to avoid overexposure to chemicals contained in these products. Always consult the Material Safety Data Sheet (MSDS) and product labels before using the products. Keep product container closed when not in use to prevent solvent evaporation and spilling hazard.

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