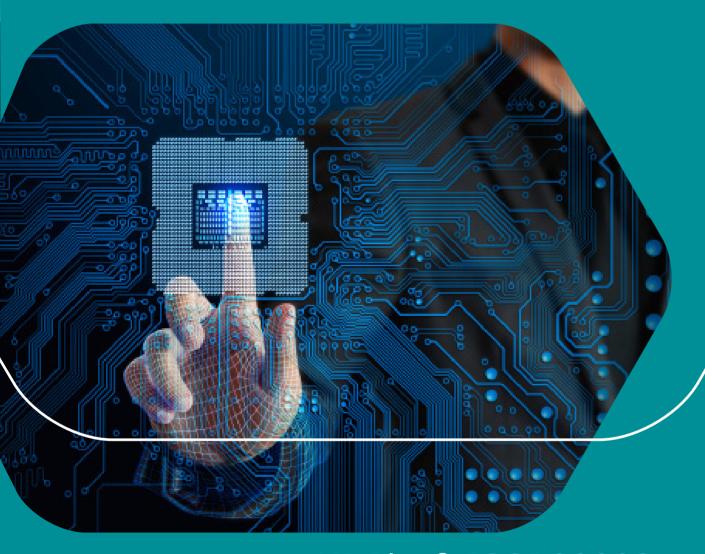
Creating Material Change



HDPlas® IGSR00002

Standard Pressure Sensor Ink Technical Data Sheet



Haydale Standard Pressure Sensor Ink

Product name: HDPlas® IGSR00002 Synonyms: Graphene ink, GNP ink

Chemical family: Piezoresistive ink, pressure sensitive ink

Properties: Insulating, piezoresistive

Typical Uses: 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: 18%

Viscosity: High to medium press ready. Thinner - THN00001

Stencil: HD200, HD220 emulsion - 20 mic stencil or 25 mic capillary film

Coverage: 30m² per kg
Squeegee shore: 70 shore hardness
Piezoresistive response: 1000N to 3000N 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.

The content supplied in this technical data sheet ("Information") supersedes all previous versions supplied. Version 12, December 2020
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