HP Indigo ElectroInk - Data Sheet

HP Indigo ElectroInk, a liquid ink developed by HP Indigo and used exclusively by HP Indigo's presses, contains electrically charged ink particles dispersed in a hydrocarbon liquid. Strictly controlled electrical fields move the charged colour particles, enabling accurate placement on the printing material. HP Indigo ElectroInk particles are very small, only 1-2 microns, allowing for higher resolution, uniform gloss, sharp image edges, and very thin image layers.

HP Indigo ElectroInk Overall Properties

Ink Type	Liquid Ink
Print Method	Digital
Colour Printing	CMYK + Premium White
Substrate Compatibility	Papers & Synthetics
Printing Resolution	High
Ink Density (Microns)	Cyan (0.815), Magenta (0.817), Yellow (0.818), Black (0.819), White (1.033)
Food Safe	Indirect Contact Only
Vegan Status	Friendly
Service Temperature	From (-42°C) to 140°C

HP Indigo ElectroInk Compliance Information

REACH	Yes, Compliant
RoHS	Yes, Compliant
Heavy Metals	Yes, Compliant
Restricted Chemicals & Substances	Does NOT contain: Phthalates (DEHP, BBP, DBP, DIBP), Bisphenols (BPA, BPS), Photoinitiators, Aromatic amines, Nanomaterials, Hazardous Air Pollutants (HAPs), Toxic Air Contaminants (TACs), Particulate Matter Emissions
Conflict Minerals	Yes, Compliant
Food Packaging Safety	Compliant with FFDCA (USA), EU Regulation 1935/2004, EU GMP 2023/2006, Swiss Ordinance 817.023.21, JPIMA Negative List, Nestlé Guidance Note, EuPIA Guidelines
EU Packaging Waste Directive (94/62/EC)	Ensures responsible packaging waste management
EU Toy Safety Standard (EN71 - Parts, 3, 9, 12)	Safe for printing on toy-related packaging and materials
Chemical Resistance	Tested under ISO 2836 & 2837 – Resistant to water, alkalis, acids, oils, detergents, solvents
Light Resistance (Outdoor Durability)	Tested using ISO 18930 – Fade Resistant Yellow, Magenta, Orange, and Violet rated Blue Wool Scale (BWS) 6-7 for UV stability
Recycling % Deinking	Meets European deinking standards – Successfully removed from paper fibers in mill trials

HP Indigo ElectroInk - Premium White

Ink Type	Liquid Ink
Print Method	Digital
Colour Printing	CMYK + Premium White
Substrate Compatibility	Papers & Synthetics
Printing Resolution	High
Ink Density (Microns)	1.033
Food Safe	Indirect Contact Only
Vegan Status	Friendly
Service Temperature	From (-42°C) to 140°C

HP Indigo ElectroInk - Cyan

Ink Type	Liquid Ink
Print Method	Digital
Colour Printing	CMYK + Premium White
Substrate Compatibility	Papers & Synthetics
Printing Resolution	High
Ink Density (Microns)	0.815
Food Safe	Indirect Contact Only
Vegan Status	Friendly
Service Temperature	From (-42°C) to 140°C

HP Indigo ElectroInk - Magenta

Ink Type	Liquid Ink
Print Method	Digital
Colour Printing	CMYK + Premium White
Substrate Compatibility	Papers & Synthetics
Printing Resolution	High
Ink Density (Microns)	0.817
Food Safe	Indirect Contact Only
Vegan Status	Friendly
Service Temperature	From (-42°C) to 140°C

HP Indigo ElectroInk - Yellow

Ink Type	Liquid Ink
Print Method	Digital
Colour Printing	CMYK + Premium White
Substrate Compatibility	Papers & Synthetics
Printing Resolution	High
Ink Density (Microns)	0.818
Food Safe	Indirect Contact Only
Vegan Status	Friendly
Service Temperature	From (-42°C) to 140°C

HP Indigo ElectroInk - Black

Ink Type	Liquid Ink
Print Method	Digital
Colour Printing	CMYK + Premium White
Substrate Compatibility	Papers & Synthetics
Printing Resolution	High
Ink Density (Microns)	0.819
Food Safe	Indirect Contact Only
Vegan Status	Friendly
Service Temperature	From (-42°C) to 140°C

Storage and Shelf Life

Keep away from excessive heat or cold.

Store in a cool and shaded area. Do not store in direct sunlight.

Transportation temperature range: (-45) – (+45)°C

Storage temperature range:(-45) – (+35) °C

Recommended to keep <80% RH

Regulations concerning contact with food

HP Indigo ElectroInk is safe and suitable for printing labels and shrink sleeves on the non-food contact side of the food packaging, under certain conditions of use and compliance with Good Manufacturing Practices (GMP).

HP Indigo has determined that when the following polymeric films are used under defined conditions of use and ink coverages, US, European and other regional regulatory requirements can be met:

- LDPE ≥ 40 microns
- PP ≥ 20 microns
- PET ≥ 12 microns

All ingredients are on the Swiss Positive List of the Swiss Ordinance on Materials and Articles in Contact with Food (RS 817.023.21). HP Indigo ElectroInk is compliant with Nestle Guidance Note on Packaging Inks.

The responsibility for ensuring the safety and organoleptic integrity of the printed package lies with the printer and the printer's customers.

HP Indigo is not responsible for materials and processes that are beyond its control.

A Statement of Composition (SOC) can be provided, under a Confidentiality Agreement, to allow downstream users in the supply chain to perform a risk assessment of the final package.
HP Indigo recommends that its customers perform their own risk assessment and regulatory compliance determination of their product.

For more details, please see the HP Indigo for Food Packaging Printing Regulatory Overview.