



# ECO-IMPRES – 4066-HPPD

## TECHNICAL DATA SHEET



<b>INTRODUCTION</b>	ECO-IMPRES-4066 HPPD (HPPD stands for "High Performance Pigment Dispersion - Resin Solution") is a specially designed high molecular weight styrene acrylic co-polymer resin solution for use in Water Based Narrow Web Flexo label & Tag printing applications. use of this Resin Solution enables an Ink manufacturer to produce very high strength pigment dispersions with close to Newtonian flow properties, superior gloss and transparency. The Newtonian flow properties ensure superior ink transfer.
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<b>AREAS OF APPLICATION</b>	ECO-IMPRES-4066 HPPD is a <i>styrene acrylic co-polymer resin</i> of a very high Tg, developed for use in Water-based Overprint Varnishes and Flexographic Inks. It is used as an excellent pigment grinding and gloss promoting medium for water-based inks. It also provides high heat resistance, excellent resolubility / press stability, and film release properties in overprint varnishes. One can further enhance the heat resistance properties of this emulsion by employing Zinc Ammonium Carbonate solution. ECO-IMPRES-4066 HPPD additionally provides gloss and optical clarity. ECO-IMPRES-4066 HPPD can also be employed as de-blocking modifier. ECO-IMPRES-4066 HPPD provides excellent transfer, very good hold-out on Paper and Paper Board, fast drying properties to inks and aqueous coatings.
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<b>FEATURES &amp; BENEFITS</b>	ECO-IMPRES-4066 HPPD is a hard polymer solution. Water Based Inks and Over Printing Varnish formulations are tailored employing Glycol Ethers, Alcohols in combination with ECO-IMPRES 4090, ECO-IMPRES 4077, ECO-IMPRES 4074, ECO-IMPRES 4074F, Wax emulsions and surfactants like substrate wetting, anti-foaming and surface slip promoting etc. By varying the concentration of ECO-IMPRES-4066 HPPD in the formulation a technician can adept any formula to meet the individual
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press requirements, while ensuring fine line work and precise process color dot reproduction.

**TYPICAL PROPERTIES**

Appearance	:	Pale yellow liquid
Acid Value (on solids)	:	215-220 mg KOH/g
Density @ 25 °C	:	1 ± 0.05 gm/cc
Molecular Wt.	:	> 16000
Total solids, %	:	35 ± 2
pH	:	8.5 ± 1
Brook Field Viscosity@30°C	:	400-600
Tg	:	110 °C
Freeze / Thaw stable	:	Yes [5 cycle]

**PACKING**

ECO-IMPRES-4066 HPPD may be supplied in HDPE drums or IBC's. Bulk deliveries are possible in Tanker Loads.

**SHELF LIFE**

ECO-IMPRES-4066 HPPD must be stored in original, un-opened and un-damaged containers in dry place at temperatures between 5 & 30 D C. Exposure to frost should be avoided.

**SAFETY DATA**

ECO-IMPRES-4066 HPPD is not formulated to contain any hazardous or regulated materials such as lead, cadmium, mercury, and chromium compounds. And raw materials for ECO-IMPRES-4066 HPPD and our manufacturing process do not include any hazardous or regulated materials.

ECO-IMPRES-4066 HPPD is alkaline in nature and harmful if swallowed. Avoid contact with skin and use protective clothing, hand gloves, goggles etc., while handling this material. In case of contact or splash on eyes, wash with copious amount of water and consult a physician.

ECO-IMPRES-4066 HPPD is a water-based system and non-flammable.

**DISCLAIMER**

The above details have been compiled based on our current knowledge and based on thorough laboratory tests. As the methods and conditions of the use of the products at the printing stage and the further life cycle thereof is beyond our control, the company accepts no responsibilities / liabilities whatsoever. We suggest that detailed suitability is carried out at the user's end.

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