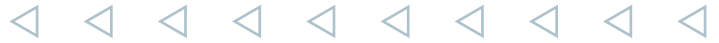


# Technical Data Sheet

Date of issue: 21.05.2023

Version No: 02

## INKMASTER Pearl BOPP Ink Series



### Description

**INKMASTER Pearl BOPP** Ink is highly pigmented Gravure Printing inks for premium quality Surface printing applications on Extruded Poly and PP Films. Optimized to give best printing results in deep freeze resistance. INKMASTER Pearl BOPP Inks are exclusively formulated with high Molecular weight polyamide.

### End Use

**INKMASTER Pearl BOPP** Ink is designed especially for surface printing of packaging labels for cold drinks and beverage bottles, ice cream packaging and specialized for Pearl film. Normally in case of wraparound labels for the cold drink bottles an OPV is employed to obtain desired scuff, water resistance and slip properties.

### Printing Machines & Press Speed

**INKMASTER Pearl BOPP** Ink is tailored to run effortlessly on Gravure machines. In case of printing machine having chilling rollers in front of each and every printing station these inks can run even up to speeds of 300 M/Min.

## Surface Printing Substrates

- LDPE ( Treated > 36 Dynes )
- PP ( Treated > 38 Dynes )
- **BOPP ( Treated > 38 Dynes )**
- Met PVC ( most of the other Met. films as well )
- HM-HDPE ( Treated > 38 Dynes )

## Benefits

- Good Printing Stability.
- High gloss.
- Good Blocking resistance.
- Excellent adhesion on various substrates.
- Good scuff resistance & slip properties which could be further enhanced by employing Slip & Scuff additive or employing recommended OPV.
- Excellent solvent release.
- Designed to exhibit a low coefficient of friction.
- Not recommended for very high speed printing as the ink tack is too high for such operations, unless each printing station is followed by a chilling roller.

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## Color Range



Full range of colors is available, which may only occasionally be restricted by specific end use related resistance properties requirements.

### Process Colour Range:

Product Description	Ink Solid %	Viscosity (Sec)Ford Cup /30°C	L.F.(1-8 Scale)
INKMASTER PRL BOPP BLACK	38 ± 2	30 ± 10	7
INKMASTER PRL BOPP YELLOW	36 ± 2	35 ± 10	4
INKMASTER PRL BOPP CYAN	36 ± 2	30 ± 10	7
INKMASTER PRL BOPP MAGENTA	36 ± 2	35 ± 10	4-5

### White, OPV and Extender Medium:

Product Description	Ink Solid %	Viscosity (Sec)Ford Cup /30°C	L.F.(1-8 Scale)
INKMASTER PRL BOPP WHITE	55 ± 2	30 ± 10	7
INKMASTER PRL BOPP OP VERNISH	39 ± 2	20 ± 5	N.A
INKMASTER PRL BOPP MEDIUM	30 ± 2	20 ± 5	N.A

### Standard Range:

Product Description	Ink Solid %	Viscosity (Sec)Ford Cup /30°C	L.F.(1-8 Scale)
INKMASTER PRL BOPP RED	37 ± 2	35 ± 10	3-4
INKMASTER PRL BOPP ORANGE	36 ± 2	35 ± 10	4
INKMASTER PRL BOPP GREEN	39 ± 2	35 ± 10	7
INKMASTER PRL BOPP VIOLET	36 ± 2	35 ± 10	3
INKMASTER PRL BOPP ROYAL BLUE	36 ± 2	35 ± 10	4

A full range of colours is available as per customer demand.

## Dilution

Solvent and solvent blends used for dilution may need to be adjusted in accordance to printing conditions: Namely, printing process, printing speed, oven / machine drying capability, and graphics such as solids, lines, half tone and process printing.

### To achieve good fine print re-production, use extra retarder

Depending on printing conditions, the following solvents may be used as retarder or accelerator.

Accelerator: Ethanol

Medium: IPA / Toluene / Aliphatic - Solvent Naphtha

Retarder: N-Butanol / Methoxy Propanol

#### Reducing system

Toluene : IPA : EA	60 : 30 : 10
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\*It is always better to mix the solvents before adding to the ink.

\*\*Always shake the container vigorously before emptying the inks.

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## Printing and Processing



Viscosity measurement should be done only after the ink is well mixed (in circulation for at least 10 min) and the ink is at room temperature. Viscosity is adjusted by adding solvents slowly in small quantities. (See under "Dilution"). Printing viscosity depends on a number of factors, including print design, press conditions, the machine running speed and the desired color characteristics.

## Shelf Life

The inks and varnishes of this series have under normal conditions a shelf life of at least **6 months** (White) and **12 months** (all colors).

- Normal conditions mean:
- Storage in tightly closed containers.
- Temperature not exceeding 25°C for weeks or 30°C for days.

## Please take notice of the following:

The performance results indicated in this literature are only indicative under controlled conditions of laboratory with virgin & standard packaging grade films. Please do not use lower grades or substandard films. **Berger Paints Bangladesh Ltd.** will not take any responsibility for abnormal results on those cases.

**Berger Paints Bangladesh Ltd.** is responsible only for the tuning or replacing the ink consumed in case of any printing related problems clearly assigned to incompatibility with the ink system recommended by **Berger Paints Bangladesh Ltd.** If you require any further information please do not hesitate to contact us or visit our website.