



Untreated PP Inks (PPN)

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PROPERTIES

PPN is a solvent-based screen printing ink suitable for printing onto containers made from untreated or pretreated polypropylene. This ink system has a high gloss finish and gives excellent impact resistance when fully dried.

INSTRUCTIONS FOR USE

Thinning and Cleaning

- Stir well before use.
- PPN inks should be mixed with 10-15% Retarder 2937 before printing.
- Cleaner 2940 should be used to clean PPN from the screen. For heavy ink stains, Screensolve can be used. Please refer to the relevant P.I. Sheets for more information.

Printing

- PPN can be printed through any type of mesh, but for the best printing results it is recommended that monofilament P90-48 to P120-34 be used.
- PPN can be printed through a variety of solvent resistant stencils, such as Diazol Plus Ultra (U016), Diazol S (G133) and Diazol S Fast (G124).
- A snap distance of about 2-3 mm is required for a good release of the print from the screen.
- 1Kg of ink will print an area of 55-65 m² through a P120-34 mesh.

Drying

PPN inks are dried through solvent evaporation. They can be cured at 60°C/140°F in 15-20 seconds. PPN can also be dried at normal room temperature in about 15-20 minutes, depending on the ambient temperature. The prints should be passed through a convection oven or fan dried before handling. PPN inks will have excellent adhesion after curing at 70°C/160°F for 1-2 minutes.

Plastics

Always fully test the ink before beginning a production run, as there is often considerable variation in plastics from different manufacturers and even between different batches. Some plastics are coated with lubricants, mold release agents or anti-static electric discharge agents, and this may impair adhesion.

Product Resistance

PPN is resistant to the following products:

Substance Tested	Excellent	Good
Battery Acid Water Bleach	• • •	
Washing-Up Liquids Sodium Hydroxide Motor Oils	• • •	
Kerosine Hydraulic Oils Vegetable Oils	• •	•

Compatibility tests should be carried out between the ink and the product to be packed before printing.

COLOUR RANGE

The PPN range consists of 16 colours: 9 CMS (Chaiyaboon Matching System) Base Colours and 3 Standard Colours and 4 Trichromatic Colours.

The CMS Colours are of highly vibrant shades and virtually any colour can be produced by colour-matching the CMS Base colours with Black, White and the Extender Base.

CMS Base Colours

The following CMS colours are suitable for direct printing or colour-matching:

PPN327	Untreated PP Inks	Light Yellow/CMS Yellow GS
PPN347	Untreated PP Inks	Mid Chrome/CMS Yellow RS
PPN407	Untreated PP Inks	Deep Orange/CMS Orange
PPN507	Untreated PP Inks	Vermilion/CMS Red YS
PPN550	Untreated PP Inks	CMS Red
PPN560	Untreated PP Inks	CMS Magenta
PPN590	Untreated PP Inks	CMS Violet
PPN600	Untreated PP Inks	CMS Blue
PPN700	Untreated PP Inks	CMS Green

Standard Colours

The standard colours are available as follows:

PPN100	Untreated PP Inks	Black
PPN200	Untreated PP Inks	White
PPN551	Untreated PP Inks	Red Coke
PPN090	PPN Extender Base	Clear

Trichromatic Colours

PPN110	Untreated PP Inks	Trichromatic Black
PPN310	Untreated PP Inks	Trichromatic Yellow
PPN510	Untreated PP Inks	Trichromatic Magenta
PPN610	Untreated PP Inks	Trichromatic Cyan

Remarks:

CMS	Chaiyaboon Matching Systems
RS	Red Shade
GS	Green Shade
YS	Yellow Shade

Solvents

2900	Thinner
2937	Retarder
2940	Cleaner

STANDARD PACKING

PPN inks are available in 25Kg, 5Kg and 1Kg containers.
The Solvents are available in 200 ltr, 20 ltr, 5 ltr and 1 ltr containers.

COLOUR MATCHING SERVICE

CHAIYABOON BROTHERS COMPANY (CBC) offer a quality colour matching service. Colours can be matched to prints, wet ink samples or to PANTONE™ references. When placing an order, please include a sample of the substrate to be printed, along with any other relevant information, such as the type of mesh and squeegees that are to be used and the product resistance required. The minimum order for a colour match is 3Kg.

STORAGE

PPN inks should be stored in a sealed container between 5-25°C.

SAFETY AND HANDLING

PPN inks should be used with care. Wear suitable PPE, for example, appropriate gloves and safety glasses. All colours comply with the following standards: EN71 Standard of the European Economic Community, the United Kingdom Toys (Safety) Regulation 1974, the DIN EN 71 Standard of Germany and French Toys Standard NF 551204. Whilst working with the ink, the consumption of food and drink, and smoking are not recommended.

Please consult the information on ***The Safety and Handling of PPN inks*** in the Chaiyaboon Material Safety Data Sheet.

ENVIRONMENTAL INFORMATION

PPN Inks:

- Are formulated free from ozone depleting chemicals as described in the Montreal Convention.

TECHNICAL SERVICE AND INFORMATION

For further information or other relevant data, please do not hesitate to contact us. Chaiyaboon Brothers Company (CBC) has a team of well-trained personnel who are ready to give help and advise regarding product information and application.