



ZAHRA CHEMICALS
Consistent Quality Solutions

Poly Star

Poly star is a solvent based printing ink, designed for flexo graphic printing on treated poly olefins films.

Poly star is based on high quality polyamide and selected additives and available in white and wide range of colors.

Poly star series are free off any additives or fillers which affect Cylinders Anilox and Cyril in case of Flexography printing machine.

Main characteristics:

- Good adhesion properties.
- High color strength
- Low solvent retention.
- Good printability.
- High gloss level.
- High rub resistance.
- Free of lead, chromium, and molibdates compounds.

Recommend surface:

Most treated polyolefin films like OPP, LDPE, LLDPE, cellophane, coated aluminum foil, bread paper, and decorative wrapping paper could be used.

Reducer solvent:

Poly star inks can be diluted with all kinds of alcohols like iso-propanol and iso-butanol.

Viscosity adjustment:

Viscosity should be measured after stirring the ink in the printing machine. Printing viscosity vary from 20 – 25 sec/ ford cup 4 at 25 °C.

Information on processing:

Poly star inks may be used at press speed of 50 – 200 m/min using the appropriate reducer , a key temperature of 65 – 70 °C (web) is normally sufficient to achieve adhesion to heat sensitive polyolefin films and this temperature may be varied according to substrates , press speed and press condition.

Poly star is not recommended for lamination or heat resistant applications.

Storage:

Poly star inks may not be suited to the extend exposure to direct sun light or temperature less than 8 °C.

We recommend using **Poly star** within one year of the manufacturing data which printed on the label.



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Pack sizes:

Poly star is delivered in the following standard pack sizes:

- White colors 30 kg
- Other colors 25 kg

Cleaning:

The reducer solvent can be used for cleaning.

Technical customer service:

Zahra Chemicals offer customer service from our services laboratory including the development of complete solutions for various applications. Through our product specialists, we offer trouble shooting, color matching and problem solving.

Technical Specification:

property	Unit
• Viscosity (ASTM D1200 Ford cup 4 at 25°C)	35 – 60 sec depend on the color
• Density (ASTM D1475)	0.8 – 1.0 g/cm ³ all colors 1.4 g/cm ³ white color
• Fineness (ASTM D1210)	Off Gauge less than 3 µm
• Light fastness (ASTM D3424-01)	5 – 8 depend on the color and the customer needs.
• Adhesion (ASTM D3359-02)	100 % after 3 hrs
• Rub / Scratch	Very good
• Recommended surface	OPP , LDPE , LLDPE , Cellophane

for special requirements e.g. soap , alkali , acid and freeze resistance , light fastness.....etc Please contact us.

The above information is given in good faith. We cannot accept responsibility for any operation not under our control. New applications and end uses should always be checked with Zahra Chemical technical personnel. Zahra Chemical does not warrant that use of any of its products is appropriate for all applications.