

TOYOFOLYO

PO series

Toyofolyo inks series are sheet-fed offset inks designed especially for impervious materials such as plastic foil, hologram paper, aluminium- coated board or metallised paper, as well as non- absorbent papers (for beverage cups). Since drying takes place only oxidation, drying time will be longer than prints on the paper or absorbent materials.

Getting the best result by Toyofolyo, the following conditions should be provided;

- For the best results, prints should be completed at one pass press. So, depending on the print necessity multi-color presses should be use.
- In order to get the best adhesion, substrates should be clean (without grease and dust)
- Printed sheets stacks should be kept small and spray powder should be used to promote oxidative drying.
- 8-12% FM-9929 offset alcohol should be used in the fountain solution that will improve water-ink balance as well as drying.
- Water consumption should be kept minimal to get fast drying.
- Depending on press conditions, to promote drying 1-2% FM-0203 liquid drier can be added to ink externally.
- Dispersion lacquer can be used to get instant surface drying.

Technical Properties

- High gloss
 - Very good rub and scratch resistance
 - Excellent ink-water balance
 - Excellent dot sharpness
 - Excellent runnability and press performance
 - High colour strength and print density
 - Excellent ink transfer even at high speed
 - Inks can be left 20 hours in the duct
 - Suitable for UV varnishing
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Specifications

Physical Properties

Base : Drying alkyd/ink resins

This information is based on our latest state of knowledge, experience and results obtained in laboratory conditions by using specific processes and application types. Variety of the printing and process conditions may affect the results. In this case please contact to our technical department. And please check product performance and properties in your own conditions before doing industrial production. Toyo Printing Ink disclaims any liability for applications for which this ink series is not foreseen.

Shade : Process and spot colours
 Tack : 7,0 – 9,0 (400 rpm/32°C/Inkometer)
 Solid Content : % 60 – 90
 Density : 1,0-.1,1 g/ml
 Drying Mechanism : Oxidation
 Viscosity : 40 – 90 Pa.s. (23°C, CP50, 25s⁻¹, Anton Paar MCR101)
 Flash Point : >100 °C

Application Properties

Application Method : Litho offset
 Dry Film : 1 - 2 gr/m²

Fastness Properties

	<i>Light Fastness</i>	<i>Alcohol</i>	<i>Alkali</i>	<i>Nitro</i>	<i>Transparency</i>
PO-0203 Process Yellow	5	+	+	+	○
PO-2203 Process Yellow	6-7	+	+	+	◐
PO-1113 Process Blue	8	+	+	+	○
PO-1053 Process Magenta	5	+	(+)	+	○
PO-2053 Process Magenta	6	+	+	+	◐
PO-0553 Process Black	8	+	+	+	●
PO-0603 Warm Red	3	+	-	+	◐
PO-1709 Reflex Blue	6-7	+	+	+	○
PO-0706 Blue	4	-	+	+	○
PO-0450 Purple	4	-	-	-	○
PO-0350 Green	6	+	+	+	○
PO-0353 Green	8	+	+	+	○
PO-0400 Transparent White					
PO-0456 Opaque White					

Storage and Shelf Life

Place away from sources of heat, ignition and direct sunlight. Could be stored in tightly closed pails/containers, indoors at normal room temperature (20°C) for 5 years.

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