

# EKOPRO GIO LED L.M.

Group: 17.1.4

Revision Date: 06/10/2025

## CHARACTERISTICS

These low migration LED inks are formulated for the use on paper, cardboard and various closed substrates.

## PROPERTIES

- Low odour and migration properties
- Excellent ink/water balance
- Good adhesion
- Good gloss with high colour strength
- Great flexibility
- Excellent film lamination properties
- Curing with LED and standard UV lamps

## SUSTAINABILITY

- No VOC's
- Formulated without the use of ITX, Benzophenone and PI 379
- Compliant with EuPIA Exclusion Policy and the latest SVHC list of ECHA

## SUITABLE SUBSTRATES

- Paper and board
- Coated metals
- Pre-treated plastic films (polyester, acetate)
- Pre-treated PP films (e.g. for IML)

*Preliminary adhesion tests are recommended. A test for suitability must always be carried out before printing.*

## APPLICATION METHODS

- Letterpress
- Wet offset

## PACKAGING

- 3 KG cans

## REMARKS

See last page.

**FOOD SAFETY**

These inks are only suitable for use on **the non-food contact side of food packaging**, provided they are applied using the relevant Good Manufacturing Practices (GMP) and according to the guidelines in this Technical Data Sheet. The printer, converter and packer/filler each have a responsibility to ensure that the finished – printed – product is fit for the intended purpose(s) and that the ink and coating components do not migrate into the food at levels that exceed legal, regulatory and industry defined requirements. Please refer to Toyo Ink Europe’s “Statement of Composition” for further regulatory information. In case of specific applications, please contact your technical application service.

COLOUR	ARTICLE CODE	IWS	SPIRIT	NITRO	ALKALI	HEAT RES.
<u>Process Colours</u> 						
Yellow	TU541011XM	5	+	+	+	180 °C
Magenta	TU541012XM	5	+	+	-	170 °C
Cyan	TU541013XM	8	+	+	+	220 °C
Black	TU541014XM	8	+	+	+	220 °C

Lightfast Process Colours

Yellow	TU541913XM	6	+	+	+	220 °C
Magenta	TU541942XM	7	+	+	+	200 °C

**ADDITIVES**

PRODUCT	CODE	REC. AMOUNT	COMMENT
Anti-tack paste	EXC10001	Max 15%	
Thinner	EXC10705	1 – 3%	

**REMARKS**

**Handling and Storage**

Optimal resistance properties will be obtained 24 hours after printing. To improve scuff resistance of non-laminated surfaces, overprint varnishing is recommended. Recommended ink roller compound: EPDM. A test for suitability must always be carried out before printing. To ensure maximum stability, the product should be stored in closed containers at temperatures between 15 -20°C, away from direct heat and exposure to UV light. Storage in a dark room will be preferable. Stocks should be rotated (i.e. use oldest stock first). Following the above mentioned storage conditions the quality of these products is guaranteed when used within the Best Before Date that is mentioned on the label of the involved lot. Please consult the appropriate safety data sheet under section 7: Handling and storage.

**Shelf life**

Products which are stored as per the above mentioned storage conditions can be usable for a longer time (in excess of the “best before date”). Any usage after the “best before date” is subject to your own testing. Using the product after the “Expiry Date” is not recommended. Please note that due to our internal processes the time span between the “date of manufacturing” and the “Best Before Date” may deviate but will never be lower than our minimum guaranteed shelf life which has not changed.

**Safety Measures**

The components are not classified as Substances of very high concern and meet REACH requirements. Please consult the appropriate safety data sheet and the warnings on the label and/or packaging.

**CONTACT**

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