



# LM

## SERIES

**LM series** is a low migration fresh ink duct range of low odour, designed to be employed in packaging printing for the food, pharmaceutical and cosmetic industries, whenever it does not exist direct contact between the printed material and the food (indirect contact). Its raw materials have been specially chosen due to their good organoleptic properties, presenting a migration limit below 60 mg per kg of food (60 ppm).

LM series is an exclusive design of the R&d&i Department of MARTINEZ AYALA, S.A.

## Product features



Values from 1 (lower range) to 7 (highest range)

1	2	3	4	5	6	7
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## Printing behaviour

- Suitable for printing at high speeds.
- Suited for all types of dampening solutions.
- Excellent water-ink balance.
- Suitable for perfecting presses.
- Duct fresh.
- In accordance with ISO 12647-2.
- Ideal for coated paper and cardboard substrates.

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## Technical data

		LIGHT (IWS)	ALCOHOL	NITRO	ALKALI	VISCOSITY	TACK
		Fastness properties in accordance with ISO 12040 and ISO 2836				20°C, Laray, poises	30° 100 mpm, units
P000007182	PROCESS YELLOW LM	5	+	+	+	475 – 525	110 – 120
P000007183	PROCESS MAGENTA LM	5	+	+	-	475 – 525	85 – 95
P000007184	PROCESS CYAN LM	8	+	+	+	475 – 525	95 – 105
P000007017	PROCESS BLACK LM	8	+	+	+	475 – 525	105 – 115

## Regulatory

- LM series has been formulated with vegetable oils free from MOSH and MOAH and with raw materials suitable for the printing of packaging intended for indirect food contact. This series has been manufactured in accordance with EuPIA guidelines and the Good Manufacturing Practices outlined in Regulation (EC) No 2023/2006.
- The raw materials used in the manufacture of these inks are specially selected to meet the requirements of Regulation (EU) No 10/2011, as well as the Swiss Ordinance 817.023.21 regarding food packaging. This ensures that packaging printed with inks from the LM series complies with Regulation (EC) No 1935/2004, which stipulates that materials and articles intended to come into contact with food, in their final state, must not transfer their components to the food in quantities that could endanger human health or bring about an unacceptable change in the composition or deterioration of the organoleptic properties of the food.
- This series also complies with Directive 94/62/EC on packaging and packaging waste, particularly with regard to the presence of heavy metals.

For more information on the regulatory status of the LM series, please consult our DoC (Declaration of Compliance).

## Recommendations

- Cleaning: the cleaning products employed must be specifically designed for low migration.
- Storage: store at a temperature between 20-25°C. Avoid the direct exposure to light and heat sources. A clean and well-conditioned working area will enable the proper performance of all the components during the printing process. LM series does not have an expiry date in the short or medium term.

**LM inks do not dry by themselves, so that they shall be varnished with acrylic low migration varnishes.**

The data employed to prepare this technical data sheet has been extracted from the technical data sheets, safety data sheets, and composition declarations obtained from our suppliers. The printer or product packer will be the only one responsible for conducting a migration test that will be performed on the final printed package.

The aim of our technical documents is to inform and advise our customers. The information provided herein is correct to the best of Martínez Ayala's knowledge and belief. No liability for any errors, facts or opinions will be accepted. Customers must verify and test by themselves the suitability of this product for their application. No liability for any loss as a result of any person placing reliance on any material contained herein will be accepted.

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