

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).

Technical data

		LIGHT (IWS)	ALCOHOL	NITRO	ALKALI	VISOSITY 20°C, Laray, poises	TACK 30° 100 mpm, units
		Resistencias según norma ISO 12040 y norma ISO 2836					
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

Product features

Trapping							
Dot sharpness							
Setting							
Oxidative drying							
Gloss							
Rub resistance							

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.
- Certified by ISEGA as suitable for its use in low migration
- Ideal for coated paper and cardboard substrates.



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 at short or medium term.

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

Regulatory

LM series has been formulated with 100% of vegetable oils, free from MOSH and MOAH, and without migratory raw materials. It is suitable for printing on packaging in accordance with EuPIA guidelines for printing inks intended for indirect food contact materials and items.

The raw materials employed in the manufacture of these inks have been specially selected to accomplish with the requirements established in the Regulation 1935/2004 and 10/2011, as well as in the Swiss Ordinance 817.023.21 concerning food packaging. These regulations require that materials and objects which in their final status are intended to come in contact with food, must not transfer any component to the packaged food in quantities that may endanger human health or cause a change in the composition or cause a deterioration in its organoleptic properties.

Furthermore, this series complies with the Directive 94/62/EC on packaging and packaging waste regarding the presence of heavy metals as well as with the Regulation EN 71-3 on Toys Safety, as it does not contain chemical catalysts and heavy metals.

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

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.