



DELTA FLEXO FOOD LED 285

FLEXO UV LED INKS FOR FOOD PACKAGING - TECHNICAL DATA SHEET

APPLICATION FIELDS

Flexo machines with drying unit UV LED 385 nm / 395 nm

- Labels (adhesive, in-mould, wrap around, sleeves)
- packaging

SUBSTRATES

Coated and uncoated paper, Carton board

Plastic films - PE,PP,PVC,OPS,PET

CHARACTERISTICS

Very high reactivity.

No solvent emission.

Fresh inks without time limit.

High concentration and stable viscosity.

Excellent printing quality and excellent adhesion on various substrates.

Good gloss degree and good chemical and physical resistance.

Low odor after curing.

DELTA FLEXO FOOD LED	Europe Scale	Light ISO 12040	Nitro ISO 2836-1	Alkali ISO 2836-1	UV Varnish ISO 2836-1
Yellow Process	285101	5	yes	yes	yes
Yellow LR	285801	7	yes	yes	yes
Magenta Process	285102	5	yes	no	yes
Red LR	285802	7	yes	yes	yes
Cyan Process	285103	8	yes	yes	yes
Black Process	285104	8	yes	yes	yes

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DELTA FLEXO FOOD LED 285	Europe Scale	Light ISO 12040	Nitro ISO 2836-1	Alkali ISO 2836-1	UV Varnish ISO 2836-1
Yellow base	285111	6	yes	yes	yes
Yellow 012	285112	6	yes	yes	yes
Orange 021	285121	6	yes	yes	yes
Warm Red	285108	6	yes	yes	yes
Red 032	285132	6	yes	yes	yes
Rubin Red	285122	6	yes	yes	yes
Rhodamine	285105	7	yes	yes	yes
Purple	285109	7	yes	yes	yes
Violet	285190	8	yes	yes	yes
Blue 072	285172	8	yes	yes	yes
Blue Reflex	285106	8	yes	yes	yes
Blue Process	285113	8	yes	yes	yes
Green Base	285107	7	yes	yes	yes
Black Base	285114	8	yes	yes	yes
Transparent	285100	-	yes	yes	yes
Opaque White	285110	-	yes	yes	yes
White Sleeve H.S	285360	-	yes	yes	yes
White Sleeve	285460	-	yes	yes	yes

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Furthermore, ready to use metallic inks:

R.P. GOLD FLX UV/LED FP 285700/NEW	"Ready to use" metal ink
SILVER FLEXO UV/LED FP 285800/NEW	"Ready to use" metal ink

COMPOSTABILITY CERTIFICATE

DELTA FLEXO FOOD LED 285 series, in the following four process colour:

DELTA FLEXO FOOD LED CMP		Europe Scale	Light ISO 12040	Nitro ISO 2836-1	Alkali ISO 2836-1	UV Varnish ISO 2836-1
Yellow	Process	285901	5	yes	yes	yes
Magenta	Process	285902	5	yes	no	yes
Cyan	Process	285903	7	yes	yes	yes
Black	Process	285904	8	yes	yes	yes

is compliant to the UNI EN 13432:2002 that makes it suitable for the compostable packaging.

Certification must be made on the final product.

The total combination of the 4 colors must not exceed 4% of the weight of the finished product.

ADDITIVES

FLEXO DILUENT UV FP 260076	To reduce viscosity, max 10%
SOLVENT UV FP 2000	To clean rollers and printing blocks, ecc...
SLIP FLEXO UV FP 260488	to improve levelling, use between 0,2 - 0,5%
ANTIFOAM FLEXO UV FP 260088	use between 0,2 - 0,3% (2-3 gr x 1 kg)

DELTA FLEXO FOOD LED "285" represents the latest development regarding flexo UV inks.

With its excellent printability, instantaneous curing, very high gloss performance, high rub resistance level and water resistance level. These inks are also formulated with high selected raw materials in order to have the minimum of residual odour in accordance to the market request.

In particular this series doesn't contain **ITX / EHDAB / EHA / BENZOPHENONE / PBZ** and pigments with **heavy metals** and exempt from **BISPHENOL A**.

DeltaFlexo 285 series does not contain TMPTA as a formulation component.

However, TMPTA may be present as an unintentionally added substance (NIAS).

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POLYMERIZATION CONDITIONS

The polymerization speed depends on several factors:

- UV LED lamp power / distance between lamp and sheet;
- Thickness of ink layer;
- Printing speed

FOOD PACKAGING SUITABILITY

- Formulated to be suitable for food packaging, when coated on to the non-food contact surface of food contact materials.
- Made in accordance with European Printing Ink Association (EuPIA) Good Manufacturing Practise (GMP) guidelines.
- Compliant with Swiss Ordinance, to allow compliance with EC1935/2004

N.B.: The printed surface must never come in direct contact with food.

A "Statement of Composition" (SoC) is available on request.

STORAGE AND HANDLING

Protect in original sealed containers and from UV rays. Recommended storage temperature (20/25° C).

PACKAGING

5 Kg cans

SHELF LIFE:

When stored in a cool place away from light, a stability of 1 year from the date of production is guaranteed.

We recommend before "ok to print" to always check the conformity of the product to the specifications.

The success of printing is subject to different factors/conditions.

The liability of COLORGRAF S.p.A is reduced to the replacement of the product if it is defective or not suitable for what is required.

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