



Universal GL T Series

Universal GL series is a solvent based printing ink, designed for Rotogravure printing on treated polyolefin films.

Universal GL series is a heat resistance ink for special applications depends on your initiated trials.

Universal GL series designed to be used for lamination.

Universal GL series is a white & color inks been based on high quality binders and fine pigments.

Universal GL series considered as a one of our improved product portfolio that matching high speed machine.

Universal GL series is a heat resistance ink, particularly for Laminating PET up to 220 C° as concerns film properties.

On the other hand, applied sealing temperature at the customer end while packing the product could be increased more than 220 depending on dwell time, used temperature, impression pressure & machine speed.

Universal GL series could be used for the prepared application to serve Frozen food products

Main characteristics:

- Good adhesion properties.
- Low solvent retention.
- Good printability.
- High gloss level.
- Suitable for reverse printing.
- High bond strength with lamination
- Very good resistance for frozen products
- Good heat resistance while sealing the package.

Recommended surface:

Universal GL series ink suitable to be applied on PET (chemically treated), AL foil (using Primer), Paper and most treated Polyolefin films, e.g. OPP, LDPE, LLDPE and Cellophane.

For Polyethylene and Polypropylene film the treatment should be at least 38 dynes per / cm for good adhesion and optimum resistance properties.

As Concerns using PET with ALU Foil, you have to select the right grade of chemical coated PET, consistence for triplex application, retort & critical end using (L. Juice- Ketchup, cosmetics & Oils Etc...).

Reducer solvent:

Universal GL series inks can be diluted using Ethyl acetate & for slow drying use a small ratio of Ethoxy propanol according to your requested drying ratio.

Viscosity adjustment:



Viscosity should be measured after stirring the ink in the printing machine; printing viscosity is 15-18 sec/ Ford cup 4 at 25 °C.

Reducer varnish:

Universal GL series inks can be reduced by a consistent reducing varnish, preferred to use (Universal FL 01 T) to the desired tone.

Information on processing:

Universal GL series inks may be used at press speed of 150 up to 350 m/min using the appropriate reducer.

Universal GL series ink support lamination bond strength depending on the type of substrate, the adhesive and application condition.

Storage:

Store inks in tightly closed containers in a cool and dark place avoiding direct sunshine

For reusing used inks coming back from machines you should keep it in tightly closed drums till using.

We recommend using **Universal GL series** within one year of the manufacturing printed date on the attached sticker.

Pack sizes:

Universal GL series could be delivered in several pack sizes.

Cleaning:

The reducer solvent can be used for cleaning (Ethyl acetate recommended).

Technical Specification:

Property	Unit
<ul style="list-style-type: none">Viscosity (ASTM D1200) Ford cup 4 at 25°C	From 22 till 35 depends on the different colors +/- 3 sec. As concerns white 46 +/- 3
<ul style="list-style-type: none">Density (ASTM D1475)	1.2 to 1.3 g/cm ³
<ul style="list-style-type: none">Adhesion	Good According to 610 3M Tape Test
<ul style="list-style-type: none">Fineness (ASTM D1210)	Off Gauge less than 5 µm
<ul style="list-style-type: none">Non Volatile	Depends on the selected color

For special requirements e.g. soap, alkali, acid and freeze resistance, light fastness or any other requirements.

Please don't hesitate to Contact us.

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