



75/76 SERIES

Low Migration Dry Offset Inks

The production of ultra-safe food packaging requires the right choice of printing ink and coating systems. Based on our latest developments, Zeller+Gmelin presents our newest generation of low migration UV dry offset printing inks for plastic food containers. These products distinguish themselves not only in terms of their ability to resist migration of components into food & drug containers but also because of their printability and cured physical properties of scuff resistance, water resistance and adhesion. With proper application on the outer walls of food packaging, analytical tests using a 50% ethanol / 50% water test method routinely yield typical results of less than 10 parts per billion of migration of ink components into food contact areas. This allows the printer greater latitude to more effectively meet FDA 21CFR 170-190 requirements concerning indirect food additives in food packaging. Actual migration results can be affected by processing factors such as package design, sufficient through-cure of the ink film and sufficient barrier properties of the substrate. These products are not recommended for direct food contact.

Features

- + High Gloss / High transparency
- + Low Misting
- + High Cure Speeds
- + Free Flow Rheology
- + Dense Pigmentation
- + Free Radical Chemistry
- + Excellent adhesion to a variety of substrates
- + Low Extraction and Migration
- + Low odor
- + VOC free

Applications

76 SERIES (Non Overprintable)

- + Food and industrial plastic containers
- + Cured ink cannot be overprinted with clear varnish

75 SERIES (Overprintable)

- + Tubes and other preformed containers
- + Cured ink can be overprinted with clear varnish and is recommended

Substrates*

- + Polypropylene (PP)
- + Polyethylene (HDPE & LDPE)
- + Polyethylene Terephthalate (PET, APET)
- + Acrylonitrile-Butadiene Styrene Copolymer (ABS)
- + Polystyrene (PS)
- + Polyvinyl Chloride (PVC)
- + Suitable for injection or thermoformed plastic containers

* Proper testing recommended prior to selecting substrates.

Disclaimer: Effective 12/31/2022 or before, all products within the 75 & 76 series are free of any components covered by PFAS regulations.

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The Zeller+Gmelin Advantage

- + Localized branch service centers for technical, logistical support and rapid delivery options.
- + Custom ink solutions to meet specialized needs.
- + Technical team members available to implement developmental projects giving you the competitive edge.
- + Highly specialized UV ink experts with unparalleled experience within the industry.
- + Formula guides available for blending on site.
- + Zeller+Gmelin technical consultants can make recommendations to assure compatibility of the products you use.

Process Colors

The 75/76 SERIES provide excellent trapping through transparent dense colors and vivid contrast is achieved with minimal contamination. Dot gains are low even in areas where traditional print slurring occurs. We recommend printing Process colors in the following sequence: Process Yellow, Process Magenta, Process Cyan and Process Black. See your sales representative for tack rating information.

PANTONE® Colors

PANTONE® shades can be mixed by the customer from the 75/76 SERIES base lines. Formulation guides for PANTONE® shades based upon the 75/76 SERIES are available.

Printing Tips

- + We recommend pre-testing and qualification of colors to determine suitability to substrate and printing conditions.
- + If fade resistance is required, please consult your sales representative for recommendations.
- + Product resistance must be pre-tested to ascertain suitability of application.
- + Products are not recommended for direct food applications.

Recommended Curing

- + Curing lamp type: Medium pressure mercury vapor
- + Lamp power rating: 300 – 1350 watts per inch

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EXPERTLY DONE.