

## Process Printing Suitable Non-toluene Surface Printing Gravure Ink PIXESS Ink

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“PIXESS” was designed to meet the strong demand for a surface printing gravure ink suitable for process printing. In case of conventional surface printing inks it was difficult to reproduce stable gradation of shadow to highlight. However, the development of new materials and dispersion technology now enables stable transfer of the ink, which makes it possible to print a photograph in its original picture quality. Furthermore, process printing cuts down cost as it requires fewer specially kneaded color inks, reduces ink residuals and burden on environment and in some cases it enables changing back surface prints to surface prints.

### ■ Features

- ▶ It is highly suitable for process printing.  
(※**Back surface printing** quality prints can be produced by combining with reverse printing.)
- ▶ Enables stable ink transfer for solid as well as highlighted print portions.
- ▶ It excels in properties like printing, doctor, and clogging.
- ▶ Can be used for high-speed printing.
- ▶ It excels in physical properties, such as oil resistance, heat resistance, etc., required of a surface printing ink. In particular, it offers excellent resistance to polyvinyl blocking and ethanol.
- ▶ It is an environmental friendly non-toluene ink with low solvent residual.

"Normal surface printing is: opaque white -> yellow -> magenta -> cyan -> black.

Whereas reverse printing is: opaque white -> magenta -> cyan -> \*yellow -> black.\*Use the dedicated transparent yellow"

### ■ Applications

- ▶ Treated polypropylene.
- ▶ Treated polyethylene and its composite films.

### ■ Handling Instructions

- ▶ For diluent, use PIXESS-2 solvent (standard solvent).
- ▶ Printing viscosity varies according to printing speed, however, it is best to use 14~16 seconds for white ink, and 15~17 seconds for color ink (Zahn Cup No.3, 25°C).

■ Attention

- ▶ It cannot be used for untreated films and untreated side of heat sealable OPP films.
- ▶ Contact our technical department to inquire the suitability to other substrates.
- ▶ Not boiling resistant.
- ▶ The physical properties, such as oil and heat resistances etc., are based on the in-house test methods. Depending on the printing conditions, such as type of substrates used, printing methods, etc., the product may not suit your needs. Either conduct tests prior to use or contact our technical department.

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- ▶ The data contained herein are based on the results of the tests conducted in accordance with the in-house test methods, and are not standard values. Always conduct pre-use tests to ascertain the suitability of the product to your requirements. Nothing contained herein is to be construed as a recommendation for use in violation of any patents, applicable laws or regulations. It is the responsibility of the user to comply in all respects with applicable laws and regulations.
- ▶ Owing to product improvement the information contained herein may be modified without any prior notice.
- ▶ Make sure to read MSDS thoroughly before using the product.