

English Version (Japanese Translation)

Post-Order Production

screen ink

Evaporative Drying Ink

Evaporative drying type

GL-EXG Ink

This evaporation-drying type ink excels in reproducing fine lines, dots, and fine characters, as well as printing flexibility and stability on the plate.

Product Features

- It enables excellent reproducibility of fine lines, dots, and fine text.
- Excellent printability, ensuring stable printing without smudges, scuffs, smudging, or clogging.
- Even if you leave it for an hour with ink covered, the plate will not dry and you can continue printing.
- When printing fine lines, it can be printed undiluted.
- There are four process color options, allowing for color-separated printing.
- Since the resin composition is identical to EXG ink, the properties of the fully dried ink film are equivalent to those of EXG ink.
(Resistant to alcohol, oil, chemicals, blocking, vacuum formability, etc.)
- Can be freely mixed with EXG ink.

Features

printability

Recommended Printed Materials

Material

General plastic

Acrylic [PMMA]

Acrylic film

Polycarbonate [PC]

PC Film

polyester-based

Treated Polyethylene Terephthalate [PET]

Treated PET Film

How to use

- Before use, please stir the ink thoroughly before printing.
- It is possible to print undiluted, but when printing solid without dilution, fine bubble entanglement and
- There may be poor leveling.
In this case, you can improve by adding 10%~20% of the PC special retarder or 1% of the JA-750X.
- GL-EXG ink is designed to enhance viscosity as it is specialized for fine wire printing applications.
- Therefore, depending on the printing pattern and conditions, please refer to the solvent addition amounts and discard number below.
 - Fine lines, dots, fine letters, etc.
 - Solvent additive amount: 0~10%
 - Number of throwaway prints: 3
 - gradient
 - Solvent additive amount: 10%
 - Number of throwaway prints: 5
 - Solid
 - Solvent additive amount: 10~20%
 - Number of throwaway prints: 3

print edition

Printing Press Setup Conditions

- Printing substrate: PET film SHINPEX® Easy Bonding Treatment
- Ink: GL-EXG Ink BLACK Undiluted
- Cylinder Printing Press: MS72A by Sakurai Graphics Co., Ltd.
- Frame size: External dimensions 880mm × 920mm
- Printing plate (mesh): 420
- Tension: 1.4mm
- Emulsion thickness: 4 μ m
- Ski Base Name: Oatschemical Mighty Ski Base
- Squeegee hardness: 70° ~75°
- Squeegee speed: 800 sheets/h
- Scraper speed: 800 sheets/hour
- Squeegee push amount (right): 1mm
- Squeegee push amount (left): 1mm
- Squeegee angle: 75°
- Squeegee rubber height: 30mm
- Clearance: 3mm
- Workpiece thickness: 0.188mm

mesh

arbitrary

Curing Method & Conditions

When printing with 420 mesh

Evaporative Drying Conditions

Dry fingertips	final drying
80° C for 10 minutes	80° C for 30 minutes

Test data (environment, physical properties, weather resistance, performance, etc.)

Results		
Test Items	Test Method	Results
Fine Line Pattern Printing	Print 100 Plate pattern linearity: 100 μ m	Actual line width measurement: 105~115 μ m 
Dot pattern printing	Print 100 Dot diameter of plate pattern: 250 μ m	Actual measured dot diameter: 265~270 μ m 

Notes

- When storing, please keep it in a cool, dark place below 30° C.
- The ink has a shelf life of one year after manufacture if unopened.
- The drying properties of ink also vary depending on the printing pattern, the mesh of the plate, temperature, humidity, and other printing environments.
- For safety precautions when using the product, please refer to the product's Safety Data Sheet (SDS).
- The contents provided in this information may be changed or revised without prior notice.
- This characteristic data is based on the evaluation results conducted by our company and does not guarantee the product's characteristics during customer use.
- When using the device, please thoroughly consider the conditions based on the evaluation results of the equipment and substrate actually being used.