

POS Ink series

(2 pack type Ink for Treated PP and PE, Glass and Painted Metal Plate)

POS ink is a 2 pack type urethane based screen ink and provides printed ink layer with superior adhesion to a wide range of materials such as treated polyethylene, treated polypropylene, painted metal plates, PC, and PVC.

Application	Membrane, Metal membrane		
Special Features	<ul style="list-style-type: none"> • Superior printability providing sharp images • Excellent adhesion to a wide range of materials • Superior weather, chemical, and solvent resistance 		
Substrate	Treated PP/PE, Aluminum, Glass, Painted metal plates, PC, PET, ABS, Paper		
Dilution	P-001 SOLVENT (fast) P-002 SOLVENT (standard) P-003 SOLVENT (slow) P-004 SOLVENT (extra slow) Dilution : 15 to 25% Use P-001 SOLVENT when quick drying is required for spray painting, etc., P-002 SOLVENT when drying property is important for solid print backing, etc., P-003 SOLVENT when solid and lines are mixed in print and P-004 SOLVENT when printing fine lines, etc. *Do not use other solvents as they may adversely affect curing, adhesion, stencil stability, or other properties.		
Catalyst/Promoter mixing	POS MEDIUM : 210 CATALYST 8% POS Color Ink (all colors) : 210 CATALYST 6%	Pot Life 8 hrs.	Pot Life 8 hrs.
Additives	SM-40 DEFOAMER 2% (For anti-foam and improvement in leveling)		
Recommended Cleaner	Screen Cleaner L2 or P-002 SOLVENT		
Mesh	T 150 to 300 mesh (Coverage would be about 20 to 25m ² /kg at 250 mesh)		
Drying	Each layer 60°C 60 min Final layer 60°C 60 min or 80°C 30 min		
Standard Colors	000 MEDIUM 121 SCARLET 160 SCARLET 177 OPAQUE RED 182 RED 221 YELLOW	263 REDDISH YELLOW 271 OPAQUE LIGHT YELLOW 277 OPAQUE REDDISH YELLOW 391 BLUE 525 ORANGE 577 OPAQUE ORANGE	581 MAGENTA 611 WHITE 611C OPAQUE WHITE 797 GREEN 821 VIOLET 911 BLACK

Caution

- Adhesion test must be done before printing as quality of plastic may differ depending on manufacturers or lots. It is also recommended to wipe surface of the printing part with alcohol or mineral spirits to prevent defective print due to static electricity and insufficient adhesion due to plasticizer and additive floating.
- Checking before production: Adhesion and resistance properties may change due to differences in substrates, processes, printing and drying conditions. Be sure to check the adhesiveness and resistance properties before mass production printing.
- Ink shelf life: 24 months from production date, unopened.

Safety

UN No.: 1210
 UN Classification: Class 3 Flammable Liquids (Flash point is over 23 Degree C)

Handling

- Use safety gloves and eyeglasses to protect skin and eyes. If the ink comes in contact with skin, wash with soap and plenty of water (or lukewarm water) and consult with a doctor.
- Containers should be closed tightly after use and stored in a cool and dark place.
- SDS is available upon request. Please request a copy and read it carefully before handling the products.

Resistance

Test item	Test Conditions	Test results
Adhesion	JIS K 5600-5-6:ISO2409(cross-cut)、1mm interval 6×6、cellophane tape and peel	0(no peel)
Pencil Hardness	JIS K 5600-5-4:ISO 15184(pencil)、Weight 750g, hardness of the pencil which does not make scar	HB
Heat	80°C 24 hrs., check appearance and peel off	No defect
Liquids	JIS K 5600-6-2 ISO 2812-2 240 hrs. in tap water, check appearance and peel off from the substrate	No defect
Alcohol	Gakushin scrub tester, cotton soaked ethanol, weight 500g, 100 back and forth, check peel off from the substrate.	Slightly whitened
Oil	Soak 24 hrs. in engine oil, check appearance	No defect
Solvent	Gakushin scrub tester, cotton, weight 500g, 30 back and forth, check peel off	Slightly whitened
Scrub	Gakushin scrub tester, cotton, weight 500g, 500 back and forth, check color fade	No defect
Accelerated Weathering	JIS K 5600-7-7 ISO 11341 Radiant energy 60W/m ² , BP temp. 63±3°C raining rate 18 min/120 min, 1000 hrs, check color fade	No defect

*Test condition 【POS-911 BLACK】 【P-002 SOLVENT 20%】 【80°C 15 min】 【T 250】
 【Substrate: 0.5 mm Polycarbonate】

*Above test was conducted after leaving above printed materials for 168 hours at a room temperature.

*Accelerated weathering: as weather resistance may vary depending on the standard color, Please refer to the weather resistance data for each color.

*Above resistance test results are measured results in our laboratory and they are not guaranteed values.

*Information contained in this catalog may change without prior notice.

Revised : 2023.09.01