

EG Ink series

(Ink for Polyester Films)

Superior adhesion to various Polyester Films.

Application	Fine printing of home appliance nameplates and various stickers	
Special Features	<ul style="list-style-type: none"> · Gloss ink with superior printability, ink layer with excellent flexibility and adhesion · By using a catalyst, it can improve the physical properties of ink layer 	
Substrate	Various Polyester Films	
Dilution	H-001 SOLVENT (fast dry), H-002 SOLVENT (standard), H-003 SOLVENT (slow dry), H-004 SOLVENT (extra slow dry) Dilution 5 to 20% *Do not use other solvents as they may adversely affect curing, adhesion, stencil stability, or other properties.	
Catalyst/Promoter mixing	Not necessary For enhanced adhesion, a catalyst can be used in combination. In this case, please use the following	
	96 Catalyst 5%(standard)	Pot life about 12 hrs.
	101 Catalyst 7% (Improve curing property)	Pot life about 8 hrs.
Additives	Leveling agent 0-2% (to improve leveling) SM-40 Defoamer 0-2% (For defoaming requiring transparency)	
Recommended Cleaner	Screen Cleaner L2 or H-002 Solvent	
Mesh	T 200 to 270 mesh (Coverage would be 35-40m ² /kg at T 225 mesh)	
Drying	60°C 40 min or 80°C 30 min *Ensure sufficient drying	<u>Overprint</u> Each layer 60°C 10 min (tack free) Final layer 60°C 40 min or 80°C 30 min

Standard Colors	000 MEDIUM	221 YELLOW	611 WHITE
	001 VICTORIA	246 LIGHT YELLOW	611C OPAQUE WHITE
	002 EXTENDER	263 REDDISH YELLOW	671 OPAQUE WHITE
	003 BRIGHT RED	271 OPAQUE LIGHT YELLOW	675 OPAQUE WHITE
	112 CRIMSON	277 OPAQUE REDDISH YELLOW	797 GREEN
	121 SCARLET	391 BLUE	797 C OPAQUE GREEN
	161 SCARLET	391C OPAQUE BLUE	821 VIOLET
	163 RED	525 ORANGE	911 BLACK
	177 OPAQUE RED	577 OPAQUE ORANGE	911C OPAQUE BLACK G
	182 RED	581 MAGENTA	911 BLACK G

Caution

- Checking before commercialization: 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 items	Test conditions	Test results
Adhesion	JIS K 5600-5-6:ISO2409(Cross-cut), 1mm interval 6x6 cuts, Cellophane tape and peel	0 (No defect)
Scratch hardness	JIS K 5600-5-4:ISO 15184(Pencil method), 750g weight, hardness of the pencil which does not make scar	H
Heat	JIS K 5600-6-3:ISO 3248, 150°C, 100H, check appearance and peeling off from the substrate	No peel off
Hot water	JIS K 5600-6-2:ISO 2812-2, 60°C warm water, Soak 48 hrs. check appearance and peeling off from the substrate	No defect
Humidity and cool-heat cycling test	JIS K 5600-7-4 10 cycles, 80°C(4.5H)~20°C(0.5H)~-40°C(4.0H)~ 20°C(0.5H)~50°C,95%RH(14.0H)~20°C(0.5H)	No defect
Acid	24 hrs. in 10% H_2SO_4 , check appearance of ink layer	No defect
Alkaline	24 hrs. in 5% NaOH, check appearance and peeling off from the substrate	No defect
Alcohol	Gakushin scrub tester, cotton soaked ethanol, 200g weight, 50 back and forth. Check peeling off	No defect
Scrub	Gakushin scrub tester, with cotton, 200g weight, 400 back and forth, check color fade	No defect
Falling-weight test	JIS K 5600-5-3 DuPont Impulse tester, drop 1kg from 50cm height	No defect
Accelerated weathering (Carbon-arc)	JIS K5400 9.8.1 Weather meter with carbon arc, BP temp. 63+/-3°C:Rain rate 18 min/120 min, check color fade and peeling off	(800-1500h) No defect

*Test conditions **【H-002 Solvent 20%】 【80°C 30min】 【T-250】**
 【Substrate: 188 μ PET sheet】

*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