

UV TEC CLEAR Ink series

(UV curable clear)

UV TEC CLEAR Ink is UV curable ink for screen printing which has excellent resistances and applicable to various types of plastic. A wide variety of surface finishes are available such as gloss, matte, texture, and anti-glare.

Applications	Design and decoration of nameplate, panels, stickers, seals, posters, and various cases	
Special Features	<ul style="list-style-type: none"> · Applicable to wide range of materials, excellent solvent resistance and weather resistance. · Flexible and tough, low odor and low skin irritation · Excellent curing property and stability on stencil, and non-yellowing 	
Substrate	PC, soft & rigid PVC, PVC, PVC laminate, various treated PET, metalized film, paper	
Dilution	Not required at normal usage (Use RE-804 REDUCER within 5%, if required)	
Catalyst/Promoter mixing	Not required	
Additives	SM-278 DEFOAMER less than 1% (If bubbling or cissing occurs)	
Recommended Cleaner	Screen Cleaner L2	
Mesh	T 150 to 420 mesh (Coverage is about 30 to 70m ² /kg) UV TEC-410 CLEAR UV TEC-411 GLOSS CLEAR UV TEC-412 MATT CLEAR UV TEC-414 ANTI GLARE UV TEC-416 GLOSS TEXTURE CLEAR UV TEC-417 GLARE TEXTURE CLEAR UV TEC-418 MATT TEXTURE CLEAR	
Drying/curing	Accumulated light energy: 180 to 240mJ/cm ² , Peak power: 225mW/cm ² (Eye Graphics UV integral light counter) Two 80W/cm metal halide lamps, lamp height 15cm, belt speed 10 to 15m/min	
Standard Colors	UV TEC-410 CLEAR UV TEC-411 GLOSS CLEAR UV TEC-412 MATT CLEAR UV TEC-414 ANTI GLARE CLEAR UV TEC-416 GLOSS TEXTURE CLEAR UV TEC-417 GLARE TEXTURE CLEAR UV TEC-418 MATT TEXTURE CLEAR	: Transparency, flexibility : Good transparency and surface hardness : Full matt finish : Finish with reduced light reflection : Texture finish : Glare texture finish : Matt texture finish

Caution

- Checking adhesion before production: Adhesion may change depending on the substrates, processes, and printing. Be sure to check the adhesiveness before mass production printing.
- Ink shelf life: 6 months from production date, unopened.

Safety

UN No.: Not classified in the definition
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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
Pencil Hardness	JIS K 5600-5-4 (pencil), weight 750g, Pencil hardness which does not make scar	UV TEC-410, 411, 412, 414	B~F
		UV TEC-416, 417, 418	6H or above
Heat	JIS K 5600-6-3:ISO 3248: 80°C、72 hrs., check appearance and peel off		No defect
Hot Water	JIS K 5600-6-2:ISO 2812-2, Soak 72 hrs. in 50°C hot water, check appearance and peel off		No defect
Cool-heat cycling test	JIS K 5600-7-4 1 cycle,80°C (4 hrs.)~25°C (1 hr.)~-20°C (4 hrs.)~25°C (1 hr.),Check appearance and peel off from the substrate		No defect
Alcohol	Gakushin scrub tester, cotton soaked ethyl alcohol, weight 500g, 200 back and forth., check peel off		No defect
Gasoline	Gakushin scrub tester, cotton soaked gasoline, weight 500g, 100 back and forth., check peel off		No defect
Solvent	Gakushin scrub tester, cotton, weight 500g, 10 back and forth., check peel off		No defect
Scrub	Gakushin scrub tester, cotton, weight 500g, 1000 back and forth., check color fade		No defect
Bending	K 5600-5-1 (Cylindrical Mandrel) 2mmΦ, check cracks		No defect
Weather resistance	Weather meter, BP Temp. 63±3°C, Rain 18 min/120min, check color fade and peel off		(800hrs) No defect

*Test condition 【PC 0.5t transparent】 【T 270】

【Two 80W/cm metal halide lamps, height 15cm, belt speed 10m/min】

*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.

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