

Rigel (RIG) Ink

Rigel (RIG) Ink is a screen printing ink containing powders that emit colors due to the interference effect of light, and can form colored ink layers with high brilliance and a glittering effect. The powder is randomly oriented and the powder itself is smooth, and because of the coloration caused by the interference effect, high brilliance can be obtained in a wide range of areas.

Applications	Decoration for automobile, home appliances, packages and outdoor related.		
Special Features	<ul style="list-style-type: none"> · High brilliance ink layer can be obtained due to the interference effect of light and the smoothness of the powder. · Random orientation of the powder in the ink layer provides a wide range of luminance. · Coloring effect increases on a black base. 		
Substrate	According to each ink type		
Dilution	15 to 20% (please refer to the dilution of solvent type screen ink) *Please use the solvent listed in the catalog for each ink type. *Stir well before use, as Rigel tends to precipitate.		
Recommended Cleaner	Screen Cleaner L2		
Mesh	M type : T 150 mesh L type : T 100 mesh *Other handling is in accordance with each ink type.		
Drying/curing	According to each ink type		
Standard Colors		M type (Particle diameter 40μm)	L type (Particle diameter 80μm)
		731 RIG SILVER M	731 RIG SILVER L SILVER
		732 RIG YELLOW M	732 RIG YELLOW L YELLOW
		733 RIG RED M	733 RIG RED L RED
		734 RIG BLUE M	734 RIG BLUE L BLUE
		735 RIG GREEN M	735 RIG GREEN L GREEN
Caution	<ul style="list-style-type: none"> · 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: 6 months from production date, unopened. 		

Safety

Please refer to respective ink catalog for transportation information.

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
		M&L type
Adhesion	JIS K 5600-5-6 ISO2409 1mm interval 6×6, cellophane tape and peel	0(no peel)
Humidity and cool-heat cycling test	JIS K 5600-7-4, 80°C (4.5H)~25°C (0.5H) ~ -30°C (4H) ~25°C (0.5H) ~50°C 95%RH (14H) ~25°C (0.5H) 3 cycles, check appearance and peel off	No defect
Alcohol	Gakushin scrub tester, cotton soaked ethyl alcohol, weight 200g, 200 back and forth., check peel off	No defect
Bending	JIS K 5600-5-1 ISO 1519 (Cylindrical Mandrel) 2mmΦ, check cracks	No defect
Falling-weight test	JIS K5600-5-3 DuPont Impact tester, drop 300g weight from 50cm height	No defect
Punching	Punching by press machine	No defect
Accelerated Weathering	JIS K 5600-7-7 ISO 11341 Irradiance 60W/m ² , BP Temp. 63±3°C Rain rate 18 min/120min, 1000 hrs., check color fade and peel off	No defect

*Test condition 【Ink: 13 ink type】 【Drying condition: 80°C30 min】
 【M:T 150 mesh, L:T 100 mesh】 【Substrate: PC 0.5t】

*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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