

UV NOC Ink Series

(UV curable ink for nameplates)

UV NOC Ink Series is an environmentally-friendly screen printing ink that suppresses the generation of aldehydes, which are volatile organic compounds (VOCs). It forms a printed ink layer with excellent suitability for nameplates without generating outgases.

It can be used for a wide range of applications, including automobile meters, control panels, and nameplates for home appliances.

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|----------------------------|--|---------------------------|------------------|
| Applications | <ul style="list-style-type: none"> • Printing on various types of polycarbonate and treated PET • Printing on automobile meters, control panels and various types of nameplates such as home appliances | | |
| Characteristics | <ul style="list-style-type: none"> • Compounds that cause the generation of volatile organic compounds such as aldehydes (formaldehyde, acetaldehyde) are not used intentionally in the raw materials. • This is a safe ink with low odor and minimal skin irritation. | | |
| Substrates | PC, easy adhesion-treated PET, ABS | | |
| Dilution | <ul style="list-style-type: none"> • No dilution (if dilution is necessary, use RE-810 reducer within 2%) | | |
| Additive | SM-269 Defoamer: 0-1% (in cases of foaming or cissing occurs) | | |
| Recommended Cleaner | <ul style="list-style-type: none"> • Use Screen Cleaner L2 to clean the stencil. | | |
| Mesh | T-300 to 380 mesh (When using T-300, ink coverage is approx. 60 to 80m ² /kg) We recommend printing with a T-300 mesh to achieve a film thickness of 9 ± 2 μm. | | |
| Drying/Curing | Accumulated energy: 800 to 1000mJ/cm ² , Peak power:800 to 1000mW/cm ² (Eye Graphics UV integral light counter) A rough standard: Two 160W/cm Metal halide lamps, lamp height 8 cm, belt speed 8m/min | | |
| Standard Colors | 000 MEDIUM | 263 REDDISH YELLOW | 672 OPAQUE WHITE |
| | 163 SCARLET | 277 OPAQUE REDDISH YELLOW | 797 GREEN |
| | 168 SCARLET | 391 BLUE | 821 VIOLET |
| | 177 OPAQUE RED | 525 ORANGE | 972 BLACK |
| | 182 RED | 581 MAGENTA | |
| | 234 LIGHT YELLOW | 611 C OPAQUE WHITE | |

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: 12 months from production date, unopened.

Safety

UN No.: 3082
 UN Classification: Class 9 Environmentally Hazardous Substances

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 peel-off | No defect |
| Heat | 90°C, 200hrs. check appearance and peel-off | No defect |
| Humidity | 65°C, 95%RH, 96hrs, check appearance and peel-off | No defect |
| Cool-heat cycling test | 90°C(2.5hrs)~25°C(0.5hr)~-40°C(2.5hrs)~25°C(0.5hr), 10 cycles, check appearance and peel off | No defect |
| Hot Water | Soak 24hrs in 40°C hot water, leave 1hr, check appearance and peel-off | No defect |
| Out-gas | Covered with acrylic plate, leave 48hrs at 100±3°C, check haze of the plate | No defect |
| Bend | Bending tester, check the presence of cracks in printed ink layer after 180 degree bending. | No defect |
| Punching | Check the presence of cracks and peel-off after punching. | No defect |
| Accelerated Weathering | Weather-meter, BP Temp 63±3°C, check color fade and peel-off | No defect (600hrs) |

*Substrate: PC

*Printing conditions: T-300 mesh (ink layer thickness 11µm)

*Curing conditions: Two 160 W/cm metal halide lamps, lamp height 8cm, belt speed 8m/min

* The above resistance test results are based on our measurements and are not guaranteed values.

* The information in this catalog is subject to change without prior notice.

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