

NAN Ink series

(Gloss ink for styrene foam board, paper, PVC sticker, ABS & synthetic paper)

NAN ink has high speed printability and good resistance property to a wide range of materials such as paper, PVC stickers, synthetic paper (Yupo, etc) and ABS etc.

NAN ink is suitable for both high and low speed printing without damaging styrene foam board.

Application Styrene foam board

Special Features

- Low odor, high gloss, excellent printability and quick drying
 - Ideal for high-speed printing and not likely to cause foaming and color unevenness
 - Please select a grade of Yupo paper suitable for screen printing
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Substrate

Styrene foam board, PVC sticker, ABS, synthetic paper (Yupo, etc.), paper in general

Dilution

B-001 SOLVENT (fast) B-002 SOLVENT (standard) B-003 SOLVENT (slow)
 B-004 SOLVENT (extra slow) Dilution: 15 to 25%
 *When printing on styrene foam board, be sure to use C-002 SOLVENT.

Additives

SM-40 DEFOAMER 0.5 to 1.5% (For anti-foam and improvement in leveling)

Recommended Cleaner

Screen Cleaner L2 or B-002 SOLVENT

Mesh

T 150 to 300 mesh (Coverage would be about 50 to 60m²/kg at 250 mesh)

Drying

Over print
 Each layer 60°C 5 min
 Final layer 60 to 80°C 30 min

Standard Colors

000 MEDIUM	263 REDDISH YELLOW	618 WHITE
003 BRIGHT RED	271 OPAQUE LIGHT YELLOW	611C OPAQUE WHITE
112 CRIMSON	272 OPAQUE LIGHT YELLOW	618C OPAQUE WHITE
121 SCARLET	277 OPAQUE REDDISH YELLOW	797 GREEN
161 SCARLET	391 BLUE	821 VIOLET
163 RED	420 LIGHT BLUE	911 BLACK
177 OPAQUE RED	577 OPAQUE ORANGE	054TC YELLOW
182 RED	581 MAGENTA	135TC MAGENTA
221 YELLOW	611 WHITE	215TC CYAN D

- Caution**
- Be sure to select an ink according to the intended use.
 - Alcohol resistance is inferior to that of regular vinyl inks (such as VG ink, etc).
 - 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.
 - This ink tends to rust easily in metal cans, so it will be shipped in polyethylene containers.
 - Ink shelf life: 36 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 off	0(no peel)
Heat	80°C 72 hrs., check appearance and peel off from the substrate	No defect
Hot Water	JIS K5600-6-2, Soak 168 hrs. in 40°C hot water, check appearance and peel off from the substrate	No defect
Humidity	JIS K5600-7-2(continuous dew drop) 65°C 85%RH 100 hrs., check appearance and peel off from the substrate	No defect
Water	JIS K 5600-6-2 ,ISO 2812-2 Soak 168 hrs. in tap water, check appearance	No defect
Acid	JIS K 5600-6-1 ,ISO 2812-1, Soak 5 min in 5% H ₂ SO ₄ , check appearance and peel off from the substrate	No defect
Alkali	JIS K 5600-6-1 ,ISO 2812-1, Soak 10 min in 5% NaOH, check appearance	No defect
Alcohol	Gakushin scrub tester, cotton soaked ethanol, weight 200g, 5 back and forth, check peel off from the substrate.	Slight peel off
Oil	Olive oil, Gakushin scrub tester, cotton, weight 200g, 50 back and forth, check appearance	No defect
Detergent	Soak 24 hrs. in neutral detergent	No defect
Solvent	Soak 1 hr. in normal heptane	No defect
Scrub	Gakushin scrub tester, cotton, weight 200g, 300 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, 500-1000 hrs, check color fade	No defect

*Test condition 【NAN-911 BLACK】 【B-002 SOLVENT 20%】 【60°C 30 min】 【T 250】
【Substrate: PVC sticker】

*Above test was conducted after leaving above printed materials for 24 hours at a room temperature.

*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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