

English Version (Japanese Translation)

screen ink

Evaporative Drying Ink

general printing | Evaporative drying type

SNAP Ink 8100 Series

This is an evaporative drying ink developed for printing automotive instrument panels and nameplates made of polycarbonate and acrylic resin. It has excellent adhesion to materials, low odor, and excellent printing performance.

Product Features

- Low odor and does not cause cracks in the material.
- It has excellent adhesion and is well-suited for post-processing such as punching.
- Excellent printability, with no bounce or pinholes.
- It has excellent weather resistance.

Features

post-processing print reproducibility Crack-free material vivid color low odor physical strength

Endurance

Physical Endurance weather resistance

Recommended Printed Materials

Material

Vinyl Rigid Vinyl [PVC] Rigid PVC Industrial Instrument Board Rigid PVC Nameplate General plastic

Acrylic [PMMA] Acrylic Automotive-Related Instruments Acrylic Nameplate Acrylonitrile Butadienestyrene [ABS]

ABS Industrial Instrument Board ABS Nameplate Polycarbonate [PC] PC Automotive-related Instruments

PC Nameplate

Final product

Automotive dashboard Nameplate

Post-processing and secondary processing

punching

Finish, Texture, and Visual Effects

finish

gross

Color & Grade

Standard Colors (Standard Colors)

 00 Medium	 01 White	 08 Red	 [Special Color] 16 Pink	 [Special Color] 25 Purple	 [Special Color] 28 Orange
 [Special Color] 35 Light Onion	 [Special Color] 45 Dark Blue	 [Special Color] 46 Blue	 [Special Color] 75 Green		
 [Special Color] 85 Ultramarine	 90 Black	 91 Black	 92 Black		

Standard Colors (Weather-Resistant Colors)

 [Special Color] 06 Gold Red	 [Special Color] 13 Blue-Yellow	 14 Yellow	 [Special Color] 14 Red-Yellow
 [Special Color] 18 Red	 [Special Color] 87 Ultramarine		

EXO color

 yellow	 white	 Black	 Red	 reddish yellow	 orange
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Surface Decoration Clear

Matte Clear

For pseudo-etching and non-glare printing.
Strong thixotropic properties, excellent reproducibility of the gauze eyes.

AB mat

It has a transparent and stretchable matte finish.
It has excellent flexibility.

Specifications

Lotus form

1kg Ink Can

How to use

- Dilute the ink with a numbered solvent (#1速乾, #2標準, #3遅乾, #4リターダー) and print it.
- When printing on molded products, cracks may occur due to molding distortion.
In that case, it is diluted with styrofoam solvent (quick-drying, standard, slow-drying, #4リターダー) before printing.
- For polycarbonate, cracks may occur depending on the grade of sheet material.
In that case, it is also diluted with styrofoam solvent before printing.

print edition

Types of Editions	Cleaning	Recommended Printing Film Thickness
photographic plate	Vinyl cleaning solvent	middle

Curing Method & Conditions

Ink can dry naturally as well, but to achieve the original properties of the ink, heat drying is recommended. Especially if you are applying a double brush, please perform heat drying.

When printed on polycarbonate at a 20% dilution

Evaporative Drying Conditions

Dry fingertips #2標準: About 15 minutes (25° C) #3遅乾: About 30 minutes (25° C) #4リターダー: About 60 minutes (25° C)	completely dry After finger drying, forced drying at 80° C for 10 minutes
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Test data (environment, physical properties, weather resistance, performance, etc.)

Results		
Test Items	Test Method	Results
Adhesion	Cross-Cut Cellotape Release Test	100/100 No peeling
pencil hardness	JIS K5400 8.4 Pencil Scratch Test Load 1kg	3H No Exposed Fabric
impact resistance	JIS K5400 8.3.2 DuPont Impact Test Φ1/2in、500g、50cm	No cracks or peeling
flexion resistance	JIS K5400 8.1 Bend Test Diameter 2mm	No cracks or peeling
blow resistance	Cutting by punching	No cracks or peeling
weather resistance	Sunshine Weather Meter 700 hours	No abnormalities
heat resistance	100° C 24 hours	No abnormalities
cold resistance	-40° C 24 hours	No abnormalities
moisture resistance	60° C 95% RH 96 hours	No abnormalities
water resistance	Underwater at 40° C for 24 hours	No abnormalities
heat cycle	-30°C(2.5H) → 25°C(0.5H) → 100°C(2.5H) → 25°C(0.5H) This is 4 cycles	No abnormalities
alcohol resistance	99.5% Ethanol 10 rubbing sessions	Peeling

Weather Resistance List

Grade	color name
6	8185 Ultramarine
7	8101 White 8108 Red 8135 Asa Onion
7-8	8100 Medium 8106 Jin Chi 8113 Qing Huang 8114 Yellow 8116 Pink 8118 Red 8125 Purple
8	8128 Orange 8145 Dark Blue 8146 Blue 8175 Green 8187 Ultramarine 8190 Black 8192 Black

- Mixed colors are lower than primary colors.
Especially for smoke and light colors, weather resistance drops significantly.
- We only stock some colors (white, black, medium).
Please note that colors other than these are made-to-order products.

Notes

- SNAP ink does not have good alcohol resistance to dry films.
If this is an issue, please use the "8000 Series PC Ink."
- You cannot mix medium and regular gold powder to make gold.
There are issues with storage stability, and the ink gels within a few hours.
As a countermeasure, use a combination of "aluminum paste + medium + yellow" to create a golden color.
- For safety precautions when using the product, please refer to the product's Safety Data Sheet (SDS).
- The contents provided in this information may be changed or revised without prior notice.
- This characteristic data is based on the evaluation results conducted by our company and does not guarantee the product's characteristics during customer use.
- When using the device, please thoroughly consider the conditions based on the evaluation results of the equipment and substrate actually being used.