

## VG Ink series

(Gloss ink for Acrylic, Soft & Rigid PVC)

VG Ink is particularly easy to print on and adaptable to plastics such as soft and rigid PVC, acrylic board, vinyl-coated paper, top-coated polyester film, ABS, cellulose acetate, CAB, and polycarbonate.

<b>Applications</b>	Vinyl stickers, nameplates
<b>Special Features</b>	<ul style="list-style-type: none"> <li>• Gloss ink with excellent printability and blocking resistance.</li> <li>• Superior adhesion and flexibility to various plastics.</li> <li>• Color series with excellent weather resistance and resistance properties are available.</li> </ul>
<b>Substrate</b>	Vinyl stickers, polycarbonate, Acrylic, and soft and rigid PVC
<b>Dilution</b>	D-001 SOLVENT (fast) D-002 SOLVENT (standard) D-003 SOLVENT (slow) D-004 SOLVENT (extra slow) Dilution: 15 to 20% *Do not use other solvents as they may adversely affect curing, adhesion, stencil stability, or other properties.
<b>Additives</b>	SM-40 DEFOAMER 2% (For anti-foam and improvement in leveling)
<b>Recommended Cleaner</b>	Screen Cleaner L2 or D-002 SOLVENT
<b>Mesh</b>	T 150 to 300 mesh (Coverage is 20 to 28m <sup>2</sup> /kg at 250 mesh)
<b>Drying</b>	50 to 60°C 30 min

<b>Standard Colors</b>	000 MEDIUM	246 LIGHT YELLOW	797 GREEN
	001 VICTORIA	263 REDDISH YELLOW	797 C OPAQUE GREEN
	002 EXTENDER A	271 OPAQUE LIGHT YELLOW	821 VIOLET
	003 BRIGHT RED	277 REDDISH YELLOW	871 BROWN
	112 CRIMSON	391 BLUE	911 BLACK
	121 SCARLET	391 C OPAQUE BLUE	911 C OPAQUE BLACK
	161 SCARLET	524 ORANGE	052TC YELLOW
	163 RED	525 ORANGE	135TC MAGENTA
	177 OPAQUE RED	577 OPAQUE ORANGE	215TC CYAN D
	182 RED	581 MAGENTA	915TC BLACK
	191 RED	611 WHITE	
	221 YELLOW	611 C OPAQUE WHITE	

**Caution**

- 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
- Ink shelf life: 24 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	0(no peel)
Pencil Hardness	JIS K 5600-5-4:ISO 15184(pencil)、Weight 750g, Hardness which does not make scar	2 Hrs.
Humidity and cool-heat cycling test	JIS K 5600-7-4 80°C(4.5Hrs)~-30°C(4Hrs)~50°C95%RH(14Hrs)~25°C(30min) 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
Punching	Punching by press machine	No defect
Bending	JIS K 5600-5-1 ISO 1519 (Cylindrical Mandrel) 2mmΦ,check cracks	No defect
Falling weight	JIS K 5600-5-3 1/4 inch, 50cm Weight 300g	No defect
Accelerated weathering	JIS K 5600-7-7 ISO 11341 Radiant energy 60W/m <sup>2</sup> , BP Temp.63±3°C Raining rate 18min/120 min、1000 hrs. check color fade	No defect

\*Test conditions 【VG-911BLACK】 【D-002 Solvent 20%】 【50°C 10min】 【T 250】  
【Substrate: Lexan film】

\*Above test was conducted after leaving above printed materials for 168 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.

Revised: 2023.09.01