



GV Surface Printing Ink

【Main components】

- ❖ Resin: Polyamide / nitrocellulose
- ❖ Solvent: Isopropanol / ethyl ester
- ❖ Additive: Synthetic wax
- ❖ Pigment: Organic / inorganic pigment

【Application】

- ❖ Printing substrates: Surface tension above 38 dyne PE, PP
- ❖ Packaging type: Non lamination light packaging, sanitary packs.
- ❖ Printing speed: 50~150m/min.

【Product properties】

- ❖ Good stability, no ink separation, colour fading and gelation during storage and use.
- ❖ Compatible with wide range of solvent mix.
- ❖ Good solvent release property, low odor and low residue odor.
- ❖ Good balance of gloss, levelling, anti-blocking, anti-scratching and transferability.

【Dilution】

Drying speed \ Solvent	Fast	Medium	Slow
Methyl cyclohexane	30	30	30
IPA	40	40	40
Ethyl acetate	30	-	-
n propyl acetate	-	30	20
Butyl acetate	-	-	10

【Storage and safety】

- ❖ Flammable, ensure adequate LEV at work place.



- ❖ Store and use under temperature of 5-30⁰C.
- ❖ Avoid direct contact with skin and eyes, refer to MSDS for details.

【Operation】

- ❖ The ink should be stirred while adding solvent to avoid aggregation of pigment.
- ❖ Use ink dispenser to avoid ink from forming peel which may affect colour hue.
- ❖ Improve the ink stability by adding small quantity of ink over many times.
- ❖ Used ink should be checked for fineness and filter with 200T filtration net. Blend 10-30% of used ink with new ink when printing.

【Precaution】

- ❖ The degree of ink dilution depends on printing speed, excess dilution will cause dried ink film being too thin, which decreases rub and scratch resistance. Use varnish to dilute the ink.
- ❖ Low molecular weight additive within ink or substrate could cause pigment migration and colour fade, problem could get worse when printing in large scale. It is recommended to use OPV or specialized ink to solve the problem.
- ❖ Grease or volatile chemical on surface of substrate could cause ink film to soften and blocking issue.
- ❖ When printing in high RH environment, use slow drying solvent and hot air drying to avoid black ink from ‘fogging’.
- ❖ Use GM series ink for OPP printing to avoid low adhesion and smoothness.
- ❖ Not suitable for lamination and heat sealing application.
- ❖ Ink could solidify at -5⁰C, before printing the container can be heated with hot water or steam (around 20⁰C) to restore ink flowability, avoid using naked flame.
- ❖ The above technical data were obtained from our lab, result might vary depending on material and process used, please confirm before use.

【Disclaimer】

The data shown in this document is based on actual production and test result generated within our company. Above data is only for reference and does not bear any legal guarantee responsibilities. Whether actual ink performance can meet user's requirement depends on application conditions and substrate etc. We suggest that users should access whether current production conditions meet the application requirement of each product before printing. Since we cannot control the actual application and storage conditions, we cannot guarantee the final product performance. All product sales subject to our standard sales terms and conditions.