

Ink

GW Series

FIELD OF APPLICATION

Substrates

Field of Use

GW series is designed to print on glassware, such as lamp glass, cosmetic & beverage bottles and daily glass dinnerware. It is suitable for soda lime glass.

CHARACTERISTICS

This glossy, physically drying and chemical reactive screen printing ink exhibits good mechanical & chemical resistance as well as good flexibility and adhesion. Excellent printability and stable in color matching. It can be used in transfer printing, direct printing and hand painting.

HOW TO USE

Water wash the glass to remove impurities and air dry it thoroughly to ready the glass for printing. Mesh Recommended- 200-250 mesh and it is of stainless steel mesh. Suitable temperature of printing room is $25\pm 2^{\circ}\text{C}$, the humidity should not be over

60% and make sure no dust in printing environment. Thermoplastic flakes absorb the moisture easily, so keep it at low

humidity places all times, and we recommend drying it around 130°C before use. Thermoplastic first stage viscosity are 60-80Pa s (Rion (VT-04)/ $75\pm 5^{\circ}\text{C}$) and you can use it without adding separate medium.

Paste first stage viscosity are 300-500Pa s (Rion (VT-04)/ 24°C), and when mixed with advised medium to 1-3%, it will maintain 180 ± 20 Pa s (Rion(VT-04)/ 24°C). Select the squeeze of 60-70 shore hardness. Gap between the screen and glass substrate should be between 3-6mm. Minimum squeeze pressure required to transfer the ink to the glass or transfer film is recommended. Wet film thickness is 25-35 microns. Check the printing quality before it send for final firing. Fusing temperature is 520°C - 580°C (not more than 580°C). Firing time is 50-60 minutes (keep it 10 minutes at peak temperature).

CLEANER

Use TP-65 for cleaning the screen /washing up.

RANGE OF COLORS

Basic Colors



Japan Belleview Co., Ltd.

Daiwajisho Building 1202, 74-1 Yamashita-cho, Naka-Ku,
Yokohama, Kanagawa, 231-0023, JAPAN



Japan Belleview

Black	TH-1073
White	TH-1033
Red	TH-1013
Yellow	TH-1023
Cobalt Blue	TH-2053
Fruit Green	TH-1043
Etch	TH-1933

Coefficient of thermal expansion (CTE) :

85-95 X 10⁻⁷/k-1(50-300°C)

TYPE OF PACKING

20-kg Can

SHELF LIFE

Shelf life depends on the storage conditions(temperature and humidity)

The shelf life for an unopened ink container if stored ink dark room at a temperature of 20⁰25⁰ C is one year

Under different conditions, particularly higher storage temperatures, the shelf life is reduced.

PRECAUTION

Please refer MSDS before use.

Be sure to do trials before commercial run to confirm that the product fits the purpose

Additional technical information may be obtained from our Technical Department.

All characteristics described in this Technical Data Sheet refer exclusively to the standard products listed under range, provided that they are processed in accordance with the intended use and only when used with the recommended additives. The selection and testing of the ink for specific applications is exclusively your responsibility. Should, however, any liability claims arise, they shall be limited to the value of the goods delivered by us and utilized by you with respect to any and all damages not caused intentionally or by gross negligence.

Properties

Thermal Expansion	85~95 10 ⁻⁷ K-1
Solvent based	IR Drying
Chemical Resistance	Weak acid resistance, grade-5
Viscosity	20-30 Pa s
Solid contents	>80(wt%)