

Screen Printing ink

110GK B series



(Low Halogen)
Eco-friendly design



Application Field

Glass, varnish surface, metal anode, electroplating, thermosetting plastic, poly thiamine (PA), polycarbonate (PC), pre-treated polyethylene (PE) and polypropylene (PP), polyurethane rubber (PU), hard PVC. Since the above materials may be different in chemical structure or production method, it is necessary to test whether the ink is suitable before printing. Antistatic agents, release agents, and sliding additives may have a negative effect on adhesion, so they must be detected and removed before printing.

Shelf Life

Stored in the original packaging at 21 degrees Celsius, unopened can be stored for 2 to 3 years, used as soon as possible within 12 months after opening.

Ink Characteristics:

It is a high-gloss, physically dry and chemically active two-liquid screen printing ink with good mechanochemical resistance and flexibility. The color of 110GK is good in light resistance and weather resistance, and has high shielding property. It is recommended to do product testing before production. The materials used comply with the regulations and restrictions of EEC Regulation EN71 (Toy Safety), Article 3 (Migration of Specific Elements) passed in December 1994.

Color Range:

This series contains 12 reference colors, which can be mixed with each other to produce a wide range of colors. The commonly used standard on the market is Pantone.

Fine Cause Color Matching Service:

Please provide Pantone color number or printed materials.

| | | | | | | | | |
|--|--------------|-----------|---|--------|-----------|--|--------|-----------|
|  | White | 110GK1096 |  | Yellow | 110GK2280 |  | Violet | 110GK5602 |
|  | Opaque white | 100GK1100 |  | Orange | 110GK3735 |  | Blue | 110GK5581 |
|  | Black | 110GK9068 |  | Red | 110GK3717 |  | Green | 110GK6471 |
|  | Clear base | 110GK0069 |  | Red | 110GK3737 |  | Gold | 110GK4078 |
|  | Yellow | 110GK2276 |  | Pink | 110GK3736 |  | Silver | 110GK4050 |

※Above colors only for reference

Additives:

1. Thinner – Added before production, the ink can be adjusted to the appropriate printing viscosity.
2. Retarder – The retarder's volatilization rate is slow, and the retarder is added to control the ink drying time. Note that adding too much will affect the adhesion of the ink.
3. Hardener – The hardener is added to the ink to increase the adhesion of the ink.
100VR1433 is the standard hardener. Adding ratio is about 10%-20%. 100VR1294 is a hardener for glass. Adding ratio is about 10%-20%.

Operation Suggestions:

1. 110GK-B series ink can be used in all screen printing equipment on the market. The printing speed can reach 800-1600Pcs per hour.
2. PP and PE materials need to be pre-treated first by flame treatment or corona discharge, mainly to ensure the adhesion of ink.
It is recommended to pre-treat PE printing with a surface tension of at least 42 mN/m (Dynes/cm) It is recommended to pre-treat PP printing with a surface tension of at least 52 mN/m (Dynes/cm)

Curing Conditions:

The physical drying of 110GK-B series ink is through the volatilization of the solvent, about 15 minutes at room temperature, and then chemical drying by adding a hardener. The drying of the ink added with the hardener reached complete drying at room temperature in about 36 hours. Multi-color printing is recommended to use equipment that immediately dries, such as infrared drying and hot air systems.



▲ Metallic paint

▲ Metallic paint

▲ Metallic plated USB

▲ Aluminum

Precautions:

For further safety, preservation, and environmental issues, please refer to the Material Safety Data Sheet (MSDS)

Website: <https://www.finecause.com/knowledges/knowledge3>