Ti Teikokulnk Product Information

13 Ink series

(Gloss ink for nameplate)

13 Screen Ink is designed for printing dials such as speed meters related to automobile. 13 Screen Ink solves the fogging problem due to gas caused by residual solvent in acrylic transparent covers of meter dials.13 Screen Ink has excellent printability and good adhesion to various plastic materials.

| Applications | For printing dials of automobile related meters, etc. | | | | |
|------------------------|---|------------------------|--|--|--|
| Special Features | Good adhesion to plastic materials such as PC, acrylic, and soft & rigid PVC, etc. For plastic covers (mainly acrylic plates) set on top of printed materials, it is designed to prevent the problem of fogging on the inside of the cover due to gas generation caused by residual solvent in printed materials. Ink composition has excellent resistance properties and weather resistance. | | | | |
| Substrate | PC, acrylic, and soft & rigid PVC | | | | |
| Dilution | G-001 SOLVENT (fast dry), G-002 SOLVENT (standard), G-003 SOLVENT (slow dry) and G-004 (extra slow dry), Dilution 15-25% Please use G-001 SOLVENT for spray painting, not for screen printing. | | | | |
| Additives | SM-40 DEFOAMER 2% (For anti-foam and improving leveling) | | | | |
| Recommended Cleaner | Screen Cleaner L2 or G-002 Solvent | | | | |
| Mesh | T150 to 300 mesh (Coverage is 20 to 28 m²/kg at T250 mesh). | | | | |
| Drying | *It is necessary to understand the capability of the Each | | Overprint Each layer 60°C-80°C 5-10 mi Final layer 80°C-90°C 60 min. | | |
| | 000 MEDIUM | 221 YELLOW | 611 WHITE | | |
| | 001 VICTORIA | 246 LIGHT YELLOW | 611C OPAQUE WHITE | | |
| | 002 EXTENDER | 263 REDDISH YELLOW | 672 OPAQUE WHITE | | |
| | 033 GEL RETARDER | 271 OPAQUE LIGHT YELLO | OW SP OPAQAUE WHITE | | |
| Standard Colors | 121C OPAQUE SCARLET | 277 OPAQUE REDDISH YE | LLOW 797C OPAQUE GREEN | | |
| | 161SCARLET | 391C OPAQUE BLUE | 821 VIOLET | | |
| | 163 RED | 525 ORANGE | 911 BLACK | | |
| | 177 OPAQUE RED | 577 OPAQUE ORANGE | 911C OPAQUE BLACK No. | | |
| | 182 RED | 581 MAGENTA | | | |

| 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 the 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 commercialization: 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 Items | Test conditions | |
|-------------------------------------|--|-------------------|
| Adhesion | JIS K 5600-5-6:ISO2409(Cross cut method), 1mm interval 6×6 cuts, Cellophane tape and peel | 0 (No peeling) |
| Scratch hardness | JIS K 5600-5-4:ISO 15184(Pencil method), 750g weight, hardness of the pencil which does not make scar | В |
| Humidity and cool-heat cycling test | | No defect |
| Alcohol | Gakushin scrub tester, cotton-soaked ethanol, 200g weight, 200 back and forth. Check color fading. | No defect |
| Bend test | JIS K 5600-5-1 ISO 1519 (Cylindrical Mandrel) 2mmФ. Check crack. | No defect |
| Falling-weight test | JIS K 5600-5-3 1/4 inch, drop 300g weight from 50cm height | No defect |
| Accelerated weathering | JIS K 5600-7-7 ISO 11341 Radiant energy 60W/m², BP Temperature 63±3°C Raining rate 18 min/120 min, 1000hrs, Check color fade | No defect |

^{*}Test conditions [13-911 Black] [G-002 Solvent 20%] [80°C 30min] [T-250] [Substrate:Lexan film]

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^{*}Above test was conducted after leaving above printed materials for 24 hours at a room temperature.

^{*}Above resistance test results are measured results in our laboratory and not guaranteed values.

^{*}Information contained in this catalog may change without prior notice.