TTeikokulnk Product Information

VK Ink series (Semi-Gloss ink for marking film)

VK Ink was developed as ink for automobiles, motorcycles, and outdoor-marking films. The standard colors have excellent weather resistance, and intended resistance can be obtained by using overcoat clear in combination.

Applications	Automobiles, motorcycles, and outdoor-marking films				
Special Features	 Standard colors with excellent weather resistance are available. Excellent printability and suitable for high-speed printing. 				
Substrate	PVC stickers, polycarbonate, ABS				
Dilution	 J-001 SOLVENT (fast) J-002 SOLVENT (standard) J-003 SOLVENT (slow) J-004 SOLVENT (extra slow) Dilution: 5 to 25% *Z-603 Solvent can be used as a thinning solvent, but the solvent may residue on the sheet. Please be sure to dry thoroughly. *Do not use other solvents as they may adversely affect curing, adhesion, stencil stability, or other properties. 				
Additives	SM-90 DEFOAMER 2% (For anti-foam and improvement in leveling)				
Recommended Cleaner	Screen Cleaner L2 or J-002 SOLVENT				
Mesh	T 180 to 270 mesh (Coverage is 25 to 35m²/kg at 200 mesh)				
Drying	Natural drying 60 min or more Each layer 90-100°C 1 to 2 min Final layer 50-60°C 30 min or more *Drying time may varies depending on the substrate. *It is necessary to know the capacity of the dryer being used and set the drying temperature and time appropriate for the desired printed material.				
Standard Colors	000 MEDIUM 001 VICTORIA 166 RED 168 SCARLET 177 OPAQUE RED 190 BRIGHT RED 242 REDDISH YELLOW 246 LIGHT YELLOW	247 LIGHT YELLOW 277 OPAQUE REDDISH YELLOW 391 BLUE 516 ORANGE 535 ORANGE 581 MAGENTA 611 WHITE 611 C OPAQUE WHITE	797 GREEN 821 VIOLET 911 BLACK 054TC YELLOW 215TC CYAN D 135TC MAGENTA 915TC BLACK 512 MK REDDISH YELLOW		

Overcoat Clear	 The following overcoat clears are available, use according to your purpose. Printing with T 180 to 225 mesh is recommended. Please refer to product information sheet for each clear. SP-3100AU CLEAR: Gloss clear with excellent resistance and weather resistance. SP-4500AU CLEAR: Fast drying gloss clear with excellent weather resistance and scratch resistance. 	
Caution	 Adhesion test must be done before printing as quality of PVC sheet may differ depending on manufacturers or lots. Adhesion failure may occur if the release agent is adhered to, or if the material has plasticizers or additives floating on it. It is recommended to wipe the surface of the printed area with alcohol, etc. 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)
Water	Soak 168 hrs. in tap water, check appearance and peel off	No defect
Alcohol	Gakushin scrub tester, cotton soaked ethyl alcohol, weight 200g, 500 back and forth, check peel off	No defect
Scrub	Gakushin scrub tester, cotton, weight 200g, 500 back and forth, check color fade	No defect
Bending	JIS K 5600-5-1 ISO 1519 (Cylindrical Mandrel) 2mmΦ, check cracks	No defect
Humidity and cool- heat cycling test	JIS K 5600-7-4 80°C(4.5Hrs) \sim -30°C(4Hrs) \sim 50°C95%RH(14Hrs) \sim 25°C(30 min) 3 cycles, check appearance and peel off	No defect
Accelerated weathering	JIS K 5600-7-7 ISO 11341 Radiant energy - 60W/m²、BP Temp.63±3°C Raining rate18 min/120 min,2000 hrs., check color fade and peel off	No defect

*Test conditions [VK-911 Black] [J-002 Solvent 20%] [50°C 10 min]

[T 250] [Substrate: PVC sticker and polycarbonate]

*Above weathering test was conducted on a PVC sticker with an overcoat of SP-62AU CLEAR. *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.

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