Treikokulnk Product Information

UV FIL-393 Clear (UV curable glossy clear)

UV FIL-393 CLEAR is an UV curable screen printing clear which is excellent in resistances, super glossy and have reveling property. It has excellent adaptability to flexible materials. It cures very quickly and has good blocking resistance on both sides due to its slickness, making it suitable for both-sided glossing.

Application	Package, Poster, Books, etc.	
Special Features	 Applicable to a wide range of flexible materials. (Good elongation, bending, and cutting) Flexible and tough, with excellent curing property and high speed printability. Excellent stencil stability, solvent resistance, low odor, and low skin irritation. Good abilities on offset printing and on solvent based inks with super gloss and good leveling properties. 	
Substrate	 On paper and offset printing On our solvent based screen inks (EG) 	
Dilution	Not required	
Additives	SM-278 DEFOAMER 1% or less (measures to prevent foaming and repelling) SM-301 FLOW AGENT 1% or less (improvement in leveling)	
Recommended Cleaner	Screen Cleaner L2	
Mesh	T 270 to 420 mesh (Coverage is 60 to 100m²/kg at 350)	
Drying/Curing	Accumulated energy: about 180mJ/cm², Peak power:225mW/cm² (Eye Graphic UV integral light counter) Two 80W/cm Metal halide lamps, lamp height 15 cm, belt speed 20m/min	
Caution	 Checking adhesion before production: Adhesion may change depending on the substrates, processes, and printing. Be sure to check the adhesiveness before mass production printing. Ink shelf life: 12 months from production date, unopened. 	
Safety	UN No.: 3082 UN Classification: Class9 Environmentally Hazardous Substances	

	 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.
Handling	 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.

Test item	Test Conditions	Test results
Pencil Hardness	JIS K 5600-5-4 (pencil)、Weight 750g, hardness which does not make scar	6B or below
Heat	80°C 72 hrs., check appearance and peel off	No defect
Hot Water	50°C Hot water, 72 hrs. check appearance and peel off	No defect
Humidity and cool- heat cycling test	10 cycles, 80°C(4 hrs.)~25°C(1 hr.)~-20°C(4 hrs.)~25°C(1 hr) Check appearance and peel off	No defect
Boiling water	Soak in boiling water, after 5 min check appearance and peel off	No defect
Water	Soak 240 hrs. in tap water, check appearance and peel off	No defect
Acid	Soak 7 hrs. in 5% HCl solution, check appearance	No defect
Alkaline	Soak 7 hrs. in 5% NaOH, check appearance	No defect
Alcohol	Gakushin scrub tester, cotton, weight 500g, 200 back and forth, check peel off	No defect
Gasoline	Gakushin tester, Cotton soaked High octane gasoline, weight 500g, 100 back and forth.	No defect
Scrub	Gakushin scrub tester, cotton, weight 500g, 1000 back and forth, check color fade	No defect
Punching	Punching by press machine	No defect
Solvent	Gakushin scrub tester, cotton soaked ethyl acetate, weight 500g, 10 back and forth, check peel off	No defect
Bend	Best tester, condition of no crack in printed ink layer after 180 degree bending	2mm or less
Blocking	Weight 200g/cm ² 60°C 100 hrs.	No defect
Accelerated Weathering	Weather meter(carbon arc), BP temp. 63+/-3°C Raining rate 18 min/120 min, check color fade and appearance	400 to 600 hrs. (no defect)

*Test condition [80W/cm 2 Metal halide lamps, Height 15 cm, Belt speed 10m/min] [Substrate: PVC sticker (on VK ink)] [T 300]

*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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