



UVK1166*-H* Series UV Curable Offset Ink

【Product description】

This UV curable offset ink is mainly composed of UV-curable acrylic resin, photoinitiator, active diluent, pigments, filler and additives. Without solvents and volatile raw materials. It has stable printability, fast curing speed, vivid ink color, high saturation, good adhesion, and excellent aging resistance.

【Characteristics】

- ❖ Good environmental performance, and can meet the environmental protection requirements of Hasbro and Mattel.
- ❖ Fast UV curing, good adhesion, abrasion resistance, scratch resistant and high toughness.
- ❖ Good water and ink balance, good tone reproduction.
- ❖ Safe and environmentally friendly, free of petroleum solvent, non-volatile products. Using low-irritating monomer raw materials effectively reduce the irritation to the skin.

【Technical parameter】

Product		UVK116 6K-H* BLACK	UVK116 6C-H* CYAN	UVK116 6M-H* MAGE NTA	UVK116 6Y-H* YELLOW W	UVK116 6W-H* WHITE	REMARKS
Tackiness		12-14	11-13	11-13	10-12	10-12	Viscometer, 400rpm, 32±1°C
Viscosity		30-80Pa.s					Fall rod viscometer(25°C)
Curing rate		120W/CM					1-5 branch of HG LAMP (15-100m/min)
Adhesion	Gold/ silver cardboard	5	5	5	5	5	0-5, poor and excellent The substrate needs to be surface treated,



	PET	4-5	4-5	4-5	4-5	4-5	and the surface tension reaches 38 dyne/cm and above.
	PVC	4-5	4-5	4-5	4-5	4-5	

"*" after the model number indicates the version number

The above data comes from the laboratory and is for reference only.

【User's guidance】

- ❖ Viscosity adjustment: The UV curing ink is ideally balanced to adjust various printing properties. Adding 1-3% monomer resin dilution solution can adjust the viscosity slightly, and excessive amount of monomer resin will affect ink performances.
- ❖ Post-processing: If gluing, filming and bronzing process are required after printing, please conduct a single or small batch test first (be attention to select the appropriate glue, film and bronzing materials during the test), and test according to the requirements of the post-processing, then print after meeting the requirements.
- ❖ Adhesion: The ink exhibits different adhesion on the surface of the printed material due to various factors, such as the material, surface structure, surface condition, and surface tension of the printed material. Thus, users are particularly reminded to confirm the adhesion of the ink on the printing material by the required test method before the formal printing, and then select the corresponding product according to the need.
- ❖ Safety: UV ink is irritating; please avoid prolonged exposure to the skin as it may cause skin allergies.
- ❖ Storage: Store in a cool and dark environment, and the storage temperature is below 25°C.

【Precautions】

- ❖ Due to the different in printing process and substrates, please test the adaptability of the product according to your specific requirements before large scale production.



【Packaging and shelf life】

- ❖ Package and packing specification: metal can, net weight 1kg
- ❖ The shelf life is 1 year.

【Disclaimer】

This specification is in accordance with the actual production and test results, whether the product could meet your process requirements depends on application conditions and printed material. We recommend the users to assess if the product can meet all their requirements before production. Since we cannot predict or control your printing condition, the product performance cannot be guaranteed all sales are subjected to the standard terms and conditions of the sales control division.