

UV Inks

UV 161 Series

Not only does it excel in adhesive property but also in drying property and solvent resistance. This ink, Often used for non-absorbent substrates like PET, treated aluminum-laminated paper, PVC films, synthetic paper, PE and PP films, as well as paper, is suitable for both films and paper. Further, it is widely used in printing of labels (stickers) used for electric appliances, office equipments and auto parts where strong film is required.

■ Standard Colors and Resistances

| Product Name | Lightfastness | | Heat Resistance | Soap Resistance | Solvent Resistance |
|--|---------------|-------------|-----------------|-----------------|--------------------|
| | Dark Color | Light Color | | | |
| UV 161 Yellow S | 5 | 3 | 4 | 5 | 5 |
| UV 161 Magenta S | 4~5* | 3* | 4 | 2 | 4 |
| UV 161 Cyan S | 8 | 7 | 5 | 5 | 5 |
| UV 161 Black S | 7~8 | 7 | 5 | 5 | 5 |
| UV 161 Transparent White S | 8 | - | 5 | 5 | 5 |
| UV 161 Opaque White S | 8 | 7 | 5 | 5 | 5 |
| UV 161 Deep Yellow S | 5 | 3 | 4 | 5 | 5 |
| UV 161 Warm Red S | 4~5 | 3 | 4 | 3 | 4 |
| UV 161 Rhodamine Red S☆ | 4* | 2* | 2 | 1 | 2 |
| UV 161 Violet S | 7~8 | 7 | 5 | 5 | 5 |
| UV 161 Green S | 8 | 7~8 | 5 | 5 | 5 |
| UV 161 Super Lightfast Yellow S | 6~7 | 5~6 | 5 | 5 | 5 |
| UV 161 Super Lightfast Concentrated Warm Red S | 6~7 | 5~6 | 5 | 5 | 5 |
| UV 161 Super Lightfast Magenta S | 6~7 | 5~6 | 5 | 5 | 5 |
| UV 161 Lightfast Magenta S | 5~6 | 3~4 | 5 | 5 | 5 |
| UV 161 SR Yellow S | 8 | 7 | 5 | 5 | 5 |
| UV 161 SR Vermilion S | 8 | 7 | 5 | 5 | 5 |
| UV 161 SR Red S | 8 | 7 | 5 | 5 | 5 |
| UV 161 SR Rose S | 8 | 7 | 5 | 5 | 5 |
| UV 161 High Conc. Black | 7~8 | 5 | 5 | 2 | 2 |
| Improved UV 161 Conc. Opaque White | 8 | 7 | 5 | 5 | 5 |

Evaluation: Lightfastness 8(excellent)⇔ 1 (poor); Other Resistances: 5(excellent)⇔ 1 (poor)

☆Migration may occur when exposed to water (including dew).

*Lightfastness deteriorates significantly when wet with water.

<Test Procedures>

Lightfastness...Conducted FADE-O-METER exposure test on print samples. Classified resistance on a scale of 1 to 8 on the basis of exposure time and degree of fade. Dark colors were tested without dilution, and light colors by diluting them 5 times in a medium.

Heat Resistance...Exposed print samples to 150°C heat in a drying oven for 10 minutes. Classified resistance on a scale of 1 to 5 on the basis of fade.

Soap Resistance...Applied 10% soap gel at 20~25°C to print samples for 1 hour. Classified resistance on a scale of 1 to 5 on the basis of degree of fade and bleed in the soap gel.

Solvent Resistance ...Immersed print samples for 24 hours in a mixture of toluene and acetone in 1:1 ratio at 20-25°C. Classified resistance on a scale of 1 to 5 on the bases of degree of fade and bleed in the mixture.

■ Handling Instructions

Leaving a non-absorbent stock print outdoor, or exposing it to water (including dew) causes adhesiveness to deteriorate to the extent that the printed object will peel-off even by a nail scratch.



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- ▶ The data contained herein are based on the results of the tests conducted in accordance with the in-house test methods, and are not standard values. Always conduct pre-use tests to ascertain the suitability of the product to your requirements. Nothing contained herein is to be construed as a recommendation for use in violation of any patents, applicable laws or regulations. It is the responsibility of the user to comply in all respects with applicable laws and regulations.
- ▶ Owing to product improvement the information contained herein may be modified without any prior notice.
- ▶ Make sure to read MSDS thoroughly before using the product.