

UV 171 SERIES WATERLESS OFFSET INK

“UV 171 CT COLORS M-NW” UV offset inks for Toray waterless lithographic plates were developed for general purpose sheet-fed and package printings.

FEATURES

- Soft.
- Excels in drying property.
- Superior press stability.
- Excellent adherence and transferability.
- Enables excellent smoothness.
- Glossy.

PROPERTIES

- Tack Value : 7.0 to 7.5
- CTI Print-surface smudging temperature : 28 degrees C
- Tack Value: Ink-O-Meter (Water temperature:38 degrees C, 400rpm, 1minute value)

HANDLING INSTRUCTIONS

- ▶ For printing materials use Toray waterless lithographic plates, for plate cleaning use our UV plate cleaning solution, and for roller cleaning use our UV Roller Cleaning Solution F.
- ▶ Use urethane resin type roller to prevent roller swelling and ink blockage on the press.
- ▶ Set moderate nip width for the roller that comes in contact with the print surface. (Wider nip width of finishing roller can cause stains)
- ▶ 25 to 28 degrees is the appropriate print surface temperature for “UV 171 CT COLORS M-NW” inks. Therefore, control the print surface temperature by water cooling and maintain it within 25 to 28degrees C.
- ▶ Make sure to check the adhesion to the stock beforehand. Conduct pre-use tests to ascertain suitability when post printing processes, such as foil stamping, PP lamination, gluing, etc., are planned.
- ▶ Pay attention that 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.

■ Standard Colors and Resistances

Product Name	Light Resistance		Heat Resistance	Soap Resistance	Solvent Resistance
	Dark Color	Light Color			
Yellow	5	3	4	5	6
Magenta	4~5*	3* 4	2	4	
Cyan	8	7	5	5	5
Black	7~8	7	3	2	2
Opaque White	8	7	5	5	5
Transparent White	8	-	5	5	5
Concentrated Warm Red	3* 2	*	4	1	3
Lightfast Warm Red	4~5	3	4	3	4
Pink (Rhodamine Red)☆	4* 2	*	2	1	2
Resistant Pink (Rhodamine Red) 8	7	5	5	5	
Resistant Violet	7~8	7	5	5	5
Green	8	7~8	5	5	5
Super Lightfast Yellow	6~7	5~6	5	5	5
Super Lightfast Warm Red	6~7	5~6	5	5	5
Super Lightfast Magenta	6~7	5~6	5	5	5

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

* Lightfastness deteriorates significantly when wet with water.

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

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 degrees 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 to 25degrees 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 degrees C. Classified resistance on a scale of 1 to 5 on the bases of degree of fade and bleed in the mixture.

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PRODUCT DATA SHEET

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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.



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