

English Version (Japanese Translation) | Post-Order Production

- screen ink
- UV-curable ink 'Raycure'
- Surface Decoration Clear

general printing | Functionality | Overcoat | UV-curable type

Raycure OP 4300 Series

NOP Overcoat Clear

Ideal for overcoats on printed materials such as offsets and gravures.
It offers excellent curability, blocking resistance, and leveling properties, and is low-cost.

Product Features

- It excels at high-speed printing with cylinder presses and similar applications.
- It cures quickly and offers excellent blocking resistance when stacked flat.
- It has excellent adhesion to offset printed surfaces and matte PP laminated surfaces.
- The hardened film offers excellent gloss, leveling performance, and abrasion resistance.
- It does not contain heavy metals or toxic substances such as N-vinylpyrrolidone.

- Curing suitability: ☉
- Adhesion: Yes
- Flexibility: Yes
- Blocking resistance: Excellent
- High-speed printing: Yes
- Other: Low-priced items

Features

- fast hardening property
- low price
- Low toxicity

Endurance

- Physical Endurance
- blocking resistance
- abrasion resistance

Recommended Printed Materials

Material

- paper
- Board paper
- Painted surface
- Offset and gravure printing surfaces
- Matte PP Laminated Finish
- Lamicon Coating Surfaces

Finish, Texture, and Visual Effects

finish

- gross

How to use

- To reduce viscosity, use a 4300 regenerative at 10% of the dosage amount.

print edition

Printing Methods & Formats

- High-speed printing
- Cylinder press

mesh	Sol thickness	Recommended Printing Film Thickness
350	10 μ m	10~12 μ m

Curing Method & Conditions

UV Exposure Conditions

It varies depending on the ink color and type of substrate.

Types of lamps	lamp strength	irradiation distance	Conveyor speed
Metal Halide Lamp	120W/cm, 1 lamp	10cm	20m/min

Test data (environment, physical properties, weather resistance, performance, etc.)

Conditions	
printed matter	coated paper
print edition	350 Polyester Mesh
Ink	HG O.C.C
Printing Film Thickness	10 μ m
hardening conditions	Lamp type: Metal halide lamp Lamp strength: 120 W/cm, 1 lamp Conveyor speed: 20m/min Cumulative light output: 120mJ/cm ²

Results		
Test Items	Test Method	Results
Adhesion	Cross-Cut Cellotape Release Test	100/100
hardness	JIS K-5400 8.4 Pencil Hardness	H~2H
flexivity	JIS K-5400 8.1 Bending Test	No abnormalities
abrasion resistance	Oscillation-type test load: 500g	10,000 Passes

Notes

- Blocking resistance depends on the gloss of the paper being printed.
Please be careful not to print thickly on glossy paper, as there is a risk of blocking.
- For general precautions, please refer to the attached document "[UV ink](#)". Please refer to the detailed information in the "" section.
- For safety precautions when using the product, please refer to the product's Safety Data Sheet (SDS).
- The contents provided in this information may be changed or revised without prior notice.
- This characteristic data is based on the evaluation results conducted by our company and does not guarantee the product's characteristics during customer use.
- When using the device, please thoroughly consider the conditions based on the evaluation results of the equipment and substrate actually being used.