

Ultraviolet Light Amount Distribution Measurement Film

UVSCALE Application Examples

No.2 Field Printing

Measured objects


- Paper
- Packaging materials
- Cards
- Cans

Purpose

To check the UV light amount /UV light distribution when UV light is applied in UV printing


Outline of use Cut the UVSCALE to the roll width, place on the paper, and run the printer under normal conditions to apply UV light. Remove the UVSCALE from the roll and observe its coloring.

Acceptable




The whole product is irradiated evenly with the correct amount of UV light.

Defective



UV light irradiation is weak in some areas.



Due to degradation of the lamp, the correct amount of light has not been applied.

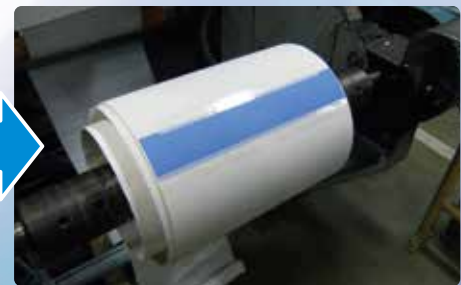
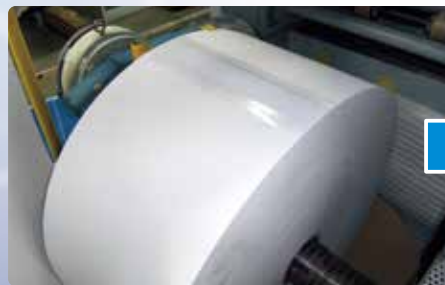
[Use example]

Checking the irradiation distribution in a UV printer



Tape the UVSCALE on both sides across the feed direction.

* Irradiation conditions
Lamp: Metal halide lamp
Lamp power: 8kW Speed: 100m/min.



Benefits of UVSCALE

- If degradation of the UV lamp or dirt on the reflective plate is causing a reduction in accumulated light amount, this can easily be detected from the shade of color, allowing determination of the correct time for replacing lamps/reflective plates and identification of the causes of defects.
- Applying UV light to the rotating paper roll with UVSCALE placed along its whole width allows the UV light distribution across the whole width of the roll to be checked.
- Anyone can easily control the light amount range for hardening UV inks.
- Light amount and light distribution can be measured in solid objects (for which illuminometers cannot be used) and in locations where illuminometers cannot be placed.

UVSCALE http://www.fujifilm.com/products/industrial_products/uvscale/

* Please note that the specifications and performance stated in this catalog may change without prior notice as a result of improvements. The diagrams used are schematic, and differ from those for actual measurements.