Irreversible

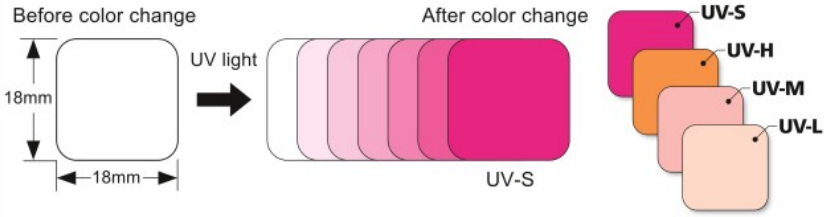
UV LABEL™

RoHS Compliant

■ **POINT!!** Confirm UV irradiation using color

Features

- Changes from a non-colored state to a colored state when exposed to UV light.
- The change in color can be used to confirm the level of UV irradiation.
- Once changed, the color is irreversible and will not disappear.
- Four types of varying sensitivity are available for different purposes.
- Adhesive on the backing allows easy affixing to diverse surfaces.



(Table1) Color Chart

Type	Irradiation Level Low ⟷ High
UV-S Super-high sensitivity	
UV-H High sensitivity	
UV-M Medium sensitivity	
UV-L Low sensitivity	

(Table2) Test results based on our test conditions※

Light Source	Irradiation dose (mJ／cm²)	Results(approx.) Reference
Metal-halide lamp	1048	
Metal-halide lamp	3339	
Metal-halide lamp	5508	
Sunlight	132480	

※Color results in (table2) depend on the irradiation device, test procedure and product lot.

100 labels per box

How to use

- UV LABEL gives no quantitative information, but gives only qualitative information by color-change.
- The coloring result depends on multiple factors. The same radiation intensity and wavelength do not necessarily result in the same color result if the other conditions and the machine are different.
- Firstly, you get the reference color data (A) with a specific cycle (B) and lamp (C).
- As long as the B and C are same, the result should be A.
- To avoid the difference between lot, you are recommended to get a new reference data for new lot.

Applications

- Determining the hardness of UV-curable resins (inks, paints, adhesives, etc.)
- Maintenance (determining the time for replacement) of UV lamps (metal-halide, mercury-vapor, germicidal lamps)
- Checking sunlight UV levels
- Checking gamma-ray or electron beam irradiation (S, H)

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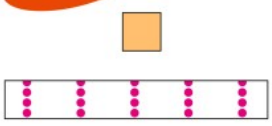
Customized UV LABEL™

Application Product

Features

- We customize sizes, shapes and designs at your request.
- In general, sensitivity and color changing tone will be the same as for the standard product.
- Price and delivery dates vary according to design and quantity. Please inquire for details.

Examples



Tape: For use together with a labeler in monitoring an irradiation line

Ultra-compact size: For small target areas (e.g. 5×5mm)

Other: Large size for checking UV dose distribution (e.g. A4 size)

Caution on Use

- Color tones will vary according to the irradiation conditions.
- The labels change color even from exposure to room lighting. Avoid exposing unused labels to light.
- For UV-S and UV-H types, colors may fade if the color change is insufficient or if stored in hot environment after color change.
- Do not apply directly to skin.
- Please do not cut the label to maintain the adhesion strength.