

MS-IK

SBQ type Capillary Film

Features/Application

- Ready to use, Pre-sensitized capillary film (no diazo)
- Flat surface profile, Low Rz value, superior dot to dot, line to line reproduction
- Consistent EOM value from screen to screen
- Fast stencil turnaround, simple application (capillary or direct/indirect method)
- Suitable for PCB, plastic, flat stocks, paper or plastic printing applications
- Suitable for solvent based, UV inks or electronic pastes
- Fast exposure time
- Long shelf life

Specifications

| | | |
|---------------------------|---------------|-------------------|
| Emulsion Thickness | | 50, 100, 150 μm |
| Cut Sheet Size | | MAX 640mm x 640mm |
| Roll | Length | 10m |
| | Width | 640mm |

*Custom cut size available (min. order qty required. Contact us)

*Emulsion to laminate for Direct/Indirect method: IK-50 recommended

Solvent Resistance Rating

| | | | |
|---------------------|------|------------------------|------|
| Water | Poor | Methyl Cellosolve | Poor |
| Toluene | Fair | Isophorone | Good |
| Acetone | Fair | PGMEA | Fair |
| Ethyl Acetate | Fair | Isopropyl alcohol | Good |
| Buthyl Cellosolve | Good | Methyl ethyl ketone | Fair |
| N-methylpyrrolidone | Poor | Butyl carbitol acetate | Good |
| Cyclohexanone | Fair | Methanol | Poor |
| Xylene | Fair | Terpineol | Good |

※24hours swelling/absorption test results.



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Instructions

- Wash, degrease and dry screen mesh. Remove grease and foreign contaminants with MSP cleanser.
- Place cut film on flat work table, emulsion side facing up.
On the top of cut film, place stretched screen (print side facing down) in a proper position.
- Spray water evenly over screen mesh from squeegee side. Tap the frame to spread water.
- Press film 1-2 times by the squeegee, then make a single squeegee stroke across the squeegee side.
Wipe off any excess water.
- Dry it completely at temperatures up to 40°C(104°F) before exposure.
- For extended durability, use IK-50 emulsion to laminate MS-IK (Direct/Indirect method).
(Contact Murakami for more technical information about how to use Direct/Indirect method)

【Remarks】

- Keep MS-IK film in a cool UV light safe area and avoid high temperature and humidity.
- Store MS-IK roll in a vertically standing position.

Exposure Data

| Screen mesh, Color | Film Thickness /E.O.M. | *3kw methal halide lamp (UV42 Intensity : 12mW/cm2) |
|-----------------------------|----------------------------------------------------------|-----------------------------------------------------|
| Polyester 27/cm (70/inch) W | 50/30 | 150-185sec. |
| | 100/80 | 185-220sec. |
| Laminating process | Manual : P ↑ S ↑ ⇒ Laminate film ↑ ⇒ S ↑ ⇒ Drying ⇒ S ↑ | |
| | Machine : P ↑ S ↑ ⇒ Laminate film ↑ ⇒ S ↑ ⇒ Drying ⇒ S ↑ | |

* Laminating emulsion: IK-50, * Machine: Automatic coating machine, * P:Print side, S: Squeegee side

* Capillary application with water only yields E.O.M. value less than direct/indirect method.

Consequently, exposure time will be faster. Take a step wedge test to locate optimum exposure time.

※ The above is for guideline purposes only. Please use a gray scale exposure calculator to identify the optimal time.