MS-Film

SBQ type Capillary Film

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URL http://www.murakami.co.jp/english/index.html

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 (capillay 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		12, 15, 20μm (MS-Film Dark)
		25, 30, 35, 40, 50, 80, 100 μm (MS-Film)
Cut Sheet Size		MAX1,000×1,000mm
Roll	**Length**	10, 30, 50m
	Width	300, 640, 1000, 1200mm

*Custom cut size available (min. order q'ty required. Contact us)

*Emulsion to laminate for Direct/Indirect method: BC-10 or BC-100 recommended

Solvent Resistance Rating

Water	Poor	Methyl Cellosolve	Poor
Tolune	Good	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	Good	Terpineol	Good

※24hours swelling/absorption test results.

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 BC-10 or BC-100 emulsion to laminate MS-Film (Direct/Indirect method).
  (Contact Murakami for more technical information about how to use Direct/Indirect method)

【Remarks】

- Keep MS-FILM in a cool UV light safe area and avoid high temperature and humidity.
- Store MS-FILM roll in a verticallu 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	120-150sec.
Polyester 100/cm (250/inch) Y	20/11	65-85sec.
Polyester 140/cm (350/inch) Y	12/5	20-40sec.
Polyester 31/cmΦ100 (80/inch) W	100+100/170	180-210sec
Laminating process	Manual : P↑↑S↑↑⇒ Laminate film↑↑ ⇒ S↑↑ ⇒ Drying	
	Machine : P↑S↑ ⇒ Laminate film↑ ⇒ S↑ ⇒ Drying	

* Laminating emulsion: BC-10, * 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.