

Flexographic Printing Plate SMP

The super cost effective SMP plates Comes from Taiwan, Stands out in China, Looks over the World!



About SUMEI

Established in 1971, Sumei is a leader in the research and manufacture of polymer resins. Our products include acrylic, polyurethane, and ultra-violet curing resins for the adhesive, coating, printing, textile, and specialty chemical industries.

Sumei Chemical is headquartered in Taipei Taiwan and has manufacturing sites in Taoyuan Taiwan, Dongguan China, and Kunshan China. Sumei delivers products and services in the China and Taiwan markets and exports to North America, South America, Europe, South East Asia, Australia, and Africa.

At Sumei, we understand the impacts of chemical on the environment. We invest to in our communities to protect the environment and to achieve sustainable growth, delivering superior products to our customers.

Core Value Superior services through innovative solutions 1 • Fundamental belief in the value of talent 2 • Outmost priority for customer satisfaction 3 • Superior service through innovative solution 4 • Pragmatic approach to quality advancement Outmost priority for customers satisfaction. Fundamental belief in the value of talents



History

- 2010 Sumei Chemical established US office and Canada office
- 2008 (Dongguan) Company completes factory construction and begins production
- 2006 O Sumei (Kunshan) Company completes factory construction and begins production
- 2003 Rayan (Dongguan) completes factory construction and begins production
- 1993 Hontex (Dongguan) completes factory construction and begins production
- 1991 (Established Syntak Company Limited in Hong Kong
- 1986 Sumei, Hones, and Honmei consolidated and renamed to Sumei Chemical Company Limited
- 1980 (Honmei established in Taoyuan, Taiwan
- 1976 O Hones established in Taoyuan, Taiwan
- 1972 O Sumei founded in Taipei, Taiwan

Quality

Sumei takes pride in its quality and delivers products that meets or exceed industry standards through our Continuous Quality Improvement System.

Sumei (Taiwan) and Sumei (Kunshan) are ISO 9001:2000 certified.

Hontex (Dongguan), Rayan (Dongguan), and Hones (Dongguan) are ISO 9001:2008 certified.



SMP-SP

Flexo Printing Plate ---- for Corrugated Box

Applications

The corrugated substrates are difficult to print due to the rough and uneven surface.

SMP-SP plates provide the increasing requirements of resolution and quality for the printing of the corrugated substrates as well as other materials such as paper bag, multi-wall bag, card board box, and heavy carton board.

Product Features

- Wide exposure latitude.
- Uniform plate thickness, proper shore hardness and resilience to ensure printing quality.
- Deep relief shoulders leading to a fine and clear looking finished plate. Adapted especially well for Asian Characters printing.
- Short exposure and washing time.
- Smooth ink coverage.
- Excellent ink transfer.
- High clarity and transparency for easy mounting.

Suggestions

- Use a good quality of the double-sided tape and the edge sealing glue.
- SMP-SP plates are compatible with water and alcohol based inks and low level acetate content inks.
- Store unexposed plates in a room at temperature of 4~32°C and a humidity of 55% RH.
- After printing, washing clean the plate with care, store it away from the direct sunlight and avoid a hot room with no air circulation.



Size

SIZE OF SUMEI FLEXOGRAPHIC PRINTING PLATE

Туре		SP700	SP635	SP550	SP500	SP470	SP394	SP318	SP284
Thickness (mm)		7.00	6.35	5.50	5.00	4.70	3.94	3.18	2.84
Thicknes	s (mil)	276	250	217	197	185	155	125	112
Size	762 × 1016 (30×40)		V			V	√		√
	762 × 1067 (30×42)					V	√		V
	840 × 1200 (33×47)						V		189
	900 × 1200 (35×47)	√			V		V		V
(mm)	1067 × 1524 (42×60)	√	V	√	√	V	V	√	V
(in.)	1067 × 2032 (42×80)	V	V		V		V	V	V
	1200 × 2032 (47×80)				·		V		
	1270 × 2032 (50×80)		V	√			V	V	V
	1320 × 2032 (52×80)						V		V
	1320 × 2540 (52×100)						V		*

Performance

SUMEI FLEXOGRAPHIC PRINTING PLATE

				SUIVIELL	LEXUGRA	PHIC PRINT	ING PLA		
SP 700	SP 635	SP 550	SP 500	SP 470	SP 394	SP 318	SP 284		
7.00	6.35	5.50	5.00	4.70	3.94	3.18	2.84		
276	250	217	197	185	155	125	112		
38-40	38-40	38-40	34-38	38-40	38-41	38-41	38-42		
3.2-3.8	2.2-3.0	2.0-3.0	2.0-3.0	1.2-2.2	1.8-2.0	0.9-1.5	1.0-1.2		
3~95%									
65	65	65	65	65	85	85	85		
0.30	0.30	0.30	0.30	0.30	0.30	0.175	0.175		
0.50	0.50	0.50	0.50	0.50	0.50	0.25	0.25		
Suitable for water and alcohol-based ink. Incompatible with oil-based ink, hydrocarbon solvent, or the ink containing more than 25% ethyl acetate.									
corrugated board, thick board etc									
	700 7.00 276 38-40 3.2-3.8 65 0.30 0.50 Suita	700 635 7.00 6.35 276 250 38-40 38-40 3.2-3.8 2.2-3.0 65 65 0.30 0.30 0.50 0.50 Suitable for wa	700 635 550 7.00 6.35 5.50 276 250 217 38-40 38-40 38-40 3.2-3.8 2.2-3.0 2.0-3.0 65 65 65 0.30 0.30 0.30 0.50 0.50 0.50 Suitable for water and alchydrocarbon solvent, or to the control of the	700 635 550 500 7.00 6.35 5.50 5.00 276 250 217 197 38-40 38-40 34-38 3.2-3.8 2.2-3.0 2.0-3.0 2.0-3.0 3~ 65 65 65 0.30 0.30 0.30 0.30 0.50 0.50 0.50 0.50 Suitable for water and alcohol-based hydrocarbon solvent, or the ink contribution.	SP 700 SP 635 SP 550 SP 500 470 7.00 6.35 5.50 5.00 4.70 276 250 217 197 185 38-40 38-40 34-38 38-40 3.2-3.8 2.2-3.0 2.0-3.0 2.0-3.0 1.2-2.2 3~95% 65 65 65 65 0.30 0.30 0.30 0.30 0.30 0.50 0.50 0.50 0.50 0.50 Suitable for water and alcohol-based ink. Incomhydrocarbon solvent, or the ink containing more.	SP 700 SP 635 SP 550 SP 500 470 394 7.00 6.35 5.50 5.00 4.70 3.94 276 250 217 197 185 155 38-40 38-40 38-40 38-41 38-41 3.2-3.8 2.2-3.0 2.0-3.0 2.0-3.0 1.2-2.2 1.8-2.0 3~95% 65 65 65 65 85 0.30 0.30 0.30 0.30 0.30 0.50 0.50 0.50 0.50 0.50 Suitable for water and alcohol-based ink. Incompatible with hydrocarbon solvent, or the ink containing more than 25%	700 635 550 500 470 394 318 7.00 6.35 5.50 5.00 4.70 3.94 3.18 276 250 217 197 185 155 125 38-40 38-40 38-40 38-41 38-41 38-41 3.2-3.8 2.2-3.0 2.0-3.0 2.0-3.0 1.2-2.2 1.8-2.0 0.9-1.5 3~95% 65 65 65 65 85 85 0.30 0.30 0.30 0.30 0.30 0.175 0.50 0.50 0.50 0.50 0.50 0.25 Suitable for water and alcohol-based ink. Incompatible with oil-based hydrocarbon solvent, or the ink containing more than 25% ethyl acet		

Technical Date

TECHNICAL DATA

Туре	SP 700	SP 635	SP 550	SP 500	SP 470	SP 394	SP 318	SP 284
Thickness (mm)	7.00	6.35	5.50	5.00	4.70	3.94	3.18	2.84
Thickness (mil)	276	250	217	197	185	155	125	112
Back Exposure (seconds)	180-280	160-280	80-200	80-200	80-200	30-60	20-30	20-30
Main Exposure (minutes)	15-25	15-25	10-20	10-20	10-20	7-15	7-10	7-10
Washing (minutes)	10-12	10-12	8-10	8-10	8-10	4-6	3-4	3-4
Drying (hours)	3-4	3-4	3	3	3	1.5-2	1.5-2	1.5-2
Detackfying (minutes)	3	3	3	3	3	3	2-3	2-3
Post Exposure (minutes)	5	5	5	5	5	5	5	5

SMP-SF

Flexo Printing Plate ---- for Universal Use

Applications

SMP-SF is made for high quality printing in a broad range of printing applications. It is especially suitable for flexible packaging printings, plastic film, paper bags, tag & label, napkin, paper cup, notebook and aluminum foil.

SMP-SF produces image of high fidelity with wide exposure latitude resulting in deep reverse open in printing.

Product Features

- Wide exposure latitude no need of masking.
- Uniform plate thickness, proper shore hardness and resilience to ensure printing quality.
- Deep relief shoulder leading to a fine and clear looking finishing plate. Adapted specially well for Asian characters printing.
- · Easy to washout.
- Smooth ink coverage.
- Excellent ink transfer.
- High clarity and transparency for easy mounting.
- Dimensionally stable polyester backing for accurate register.

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Plate-making Process

- Back exposure: Expose the plate through the back to establish the floor. Vary the back exposure time according to relief required. A proper relief helps the formation of a fine graphics.
- Main Exposure: Remove the protective coversheet and expose the front of the plate through the negative to form image. Use of a negative film with a rough emulsion surface is recommended.
- Washout: Use any safe-solvent solutions or other environmentally safe solution to remove the unexposed photopolymer.
- Drying: After washing, dry the plate in a vented hot oven (60°C) to remove the residual solvent. It is
 recommend that the plate be allowed to set aside at room temperature for 12 hours till return to the
 original thickness
- Post Exposure: Post expose the plate under the UV lamps to fully cure the plate to strength.
- Detack: Finish the plate under UVC light to eliminate surface tackiness.

SIZE OF SUMEI FLEXOGRAPHIC PRINTING PLATE

Туре		SF284	SF254	SF228	SF170	
Thickness (mm)		2.84	2.54	2.28	1.70	
Thicknes	ss (mil)	112	100	90	67	
	762 × 1016 (30×40)	√	√ ·	√	V	
Size (mm)	762 × 1067 (30×42)	V				
	840 × 1200 (33×47)					
	900 × 1200 (35×47)	V	√ ·			
	1067 × 1524 (42×60)	√	V	V	V	
(in.)	1067 × 2032 (42×80)	V	√	√	V	
	1200 × 2032 (47×80)					
	1270 × 2032 (50×80)	V				
	1320 × 2032 (52×80)	V				
	1320 × 2540 (52×100)					

Performance

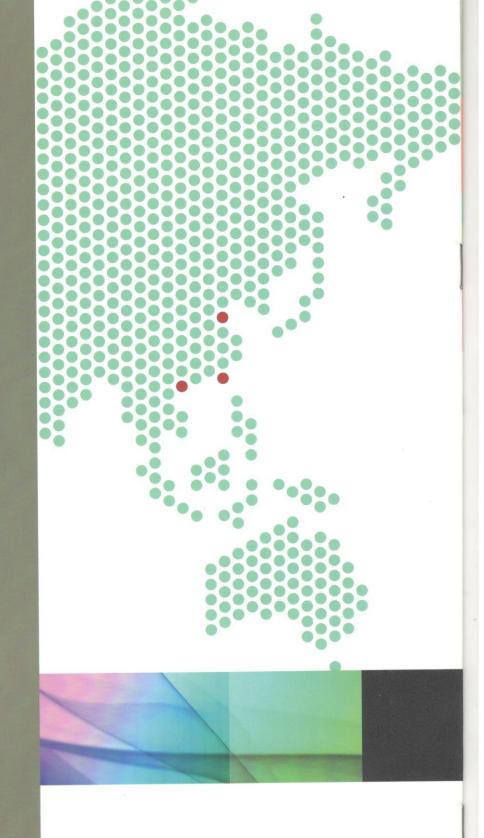
SUMEI FLEXOGRAPHIC PRINTING PLATE

Туре	SF 284L	SF 284M	SF 284H	SF 254M	SF 254H	SF 228M	SF 228H	SF 170M	SF 170H
Thickness (mm)	2.84	2.84	2.84	2.54	2.54	2.28	2.28	1.70	1.70
Thickness (mil)	112	112	112	100	100	90	90	67	67
Hardness (Shore A)	45-48	53-56	58-62	53-56	58-62	53-56	58-62	60-62	70-72
Recommended relief depth (mm)	1.0-1.2	1.0-1.2	1.0-1.2	1.0-1.2	1.0-1.2	1.0-1.1	1.0-1.1	0.7-0.9	0.7-0.9
Tonal range	3~95%	2~95%	2~95%	2~95%	2~95%	2~95%	2~95%	2~95%	2~95%
Maximum reproduction line (line/inch)	85	133	133	133	133	133	133	133	133
Minimum isolated line width (mm)	0.175	0.15	0.15	0.15	0.15	0.10	0.10	0.10	0.10
Minimum isolated dot size (mm)	0.25	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Suitable ink		Su A	table for to lso suitabl	ested UV e for wate	nk and so r-based a	me parts on nd alcohol	of solvent i -based inl	ink.	
Mainly applicable field			film, tag, la	able, hand	bag, softp	ackage, c	arton etc		

Technical Date

TECHNICAL DATA

Туре	SF 284L	SF 284M	SF 284H	SF 254M	SF 254H	SF 228M	SF 228H	SF 170M	SF 170H
Thickness (mm)	2.84	2.84	2.84	2.54	2.54	2.28	2.28	1.70	1.70
Thickness (mil)	112	112	112	100	100	90	90	67	67
Back Exposure (seconds)	20-30	20-30	20-30	20-30	20-30	20-30	20-30	20-60	20-60
Main Exposure (minutes)	7-10	7-10	7-10	7-10	7-10	8-10	8-10	6-12	6-12
Washing (minutes)	3-4	3-4	3-4	3-4	3-4	3-4	3-4	2-4	2-4
Drying (hours)	1.5-2	1.5-2	1.5-2	1.5-2	1.5-2	1.5-2	1.5-2	1.5-2	1.5-2
Detackfying (minutes)	2-3	2-3	2-3	2-3	2-3	2-3	2-3	1-2	1-2
Post Exposure (minutes)	5	5	5	5	5	5	5	5	5



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