



Avflex

GLOBAL TECHNOLOGY – LOCAL SERVICE



Water-washable
Photo-sensitive Printing Plate

Printight™



Toyobo were the original pioneers of water-wash plate technology starting in 1977.

All Toyobo plates exhibit best image reproduction, sharp and fine lines with extremely accurate of plate thickness, durometer and resistance for long life and optimised press performance with waterbased, solvent based or UV Cure ink systems all produced according to exacting ISO 9001 Quality Control processes.

Fast, safe, water-wash Analog or Digital plate processing for the absolute lowest environmental impact makes Toyobo your first choice for photopolymer plate technology.

TOYOBO

Beyond Horizons

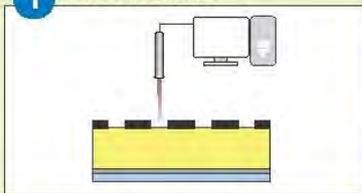
Printight™ CTP Characteristics

1. Higher and clearer reproduction of screen dots and letters.
2. Reduction in total cost.
 - ◆ No negative films required.
 - ◆ Consistent plate quality with a simplified plate-making process.
3. Improvement in productivity.
 - Shorter plate-making time due to the simplification in a plate-making process.
 - A laser ablation layer can be removed with tap water.

Printight™ CTP Plate-making Process

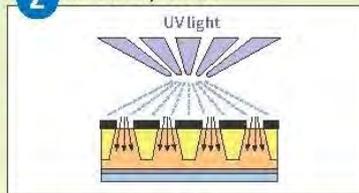
digital

1 Laser Ablation



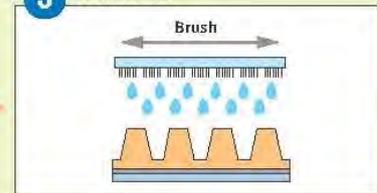
Depict images through an IR laser head to a laser ablation layer directly.

2 Main Exposure



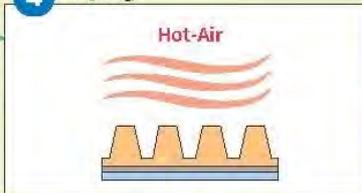
Expose to UV light with 360nm wave lengths.

3 Washout



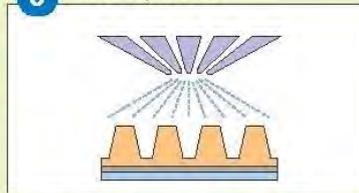
Wash out with tap water.
Use washout machines suitable for Printight™.

4 Drying



Remove water droplets from a plate surface, and dry it in a hot-air dryer.

5 Post Exposure



Expose to UV light to get plate stability.



Please follow all the laws and regulations in your district for the treatment of washout solutions.

FAQ:

Q: What is the recommended plate room working conditions?

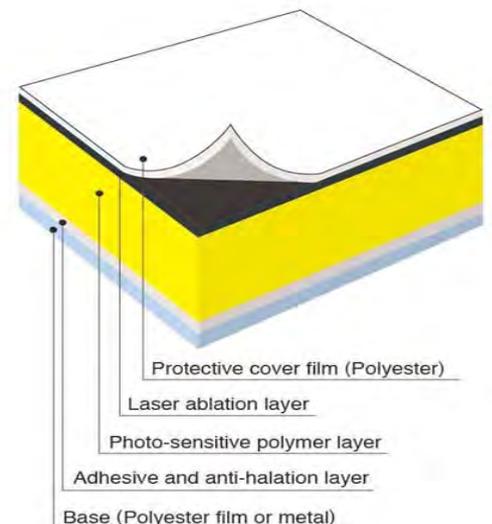
A: It is recommended to handle unprocessed plates under yellow safe lights or UV cut lamps.

Q: What is the recommended storage conditions?

A: To ensure a longer shelf life, store unexposed plates in original packaging and in a dark room at below 25°C and humidity below 70%.

Q: How to set the appropriate plate-making condition?

A: Please refer to "TIPS for Printight" contained in the carton supplied, or the Avflex "Plate Processing Guide"



Printight Characteristics

1. Washout with tap water at room temperature (no additives required).
2. Polyester film base with excellent dimensional stability makes the plate easy to mount.
Metal base products are also available.
3. High plate thickness accuracy and therefore can be printed with small printing pressure.
4. Great ink transfer due to high affinity between a plate and ink.

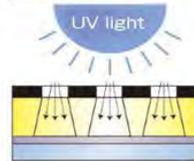
Printight® Plate Making Process (Analog)

1 Contact with negative film



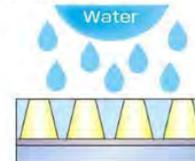
Remove the cover film and place a negative film on the undeveloped plate. Use a negative film having the optical density of no less than 3.0.

2 Exposure



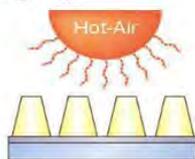
Expose the plate through the negative film to UV light having 360 nm wave length. Determine the correct exposure time using a 21 steps grey scale. Follow "TIPS FOR Printight™" in each case.

3 Washout



Remove the negative film. Washout the exposed plate with water. Use the special washout machine suitable for TOYOBO Printight®. Washout time depends on the thickness of the plate. Follow "TIPS FOR Printight™" in each case. Rinse the washed out plate with fresh water.

4 Drying



Dry the plate in a hot-air dryer after taking-off the surface water with a sponge roll. Drying time depends on the type of the plate. Follow "TIPS FOR Printight™" in each case.

5 Post exposure



Expose the developed plate after drying again to UV light in order to get stability. Post exposure time should be the same or longer than main exposure time.

Please follow all the laws and regulations in your district.
(Please refer to SDS for details.)

FAQ:

Q: What is the recommended plate room working conditions?

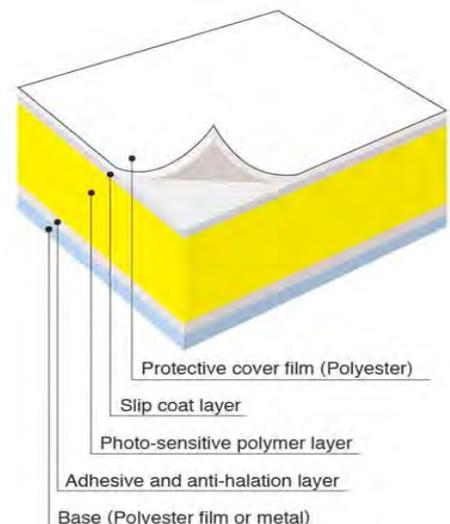
A: It is recommended to handle unprocessed plates under yellow safe lights or UV cut lamps.

Q: What is the recommended storage conditions?

A: To ensure a longer shelf life, store unexposed plates in original packaging and in a dark room at below 25°C and humidity below 70%.

Q: How to set the appropriate plate-making condition?

A: Please refer to "TIPS for Printight" contained in the carton supplied, or the Avflex "Plate Processing Guide"



Printlight Type and Application

Type	Hardness (Shore D)	Base Material	Description	Plate Thickness (mm/inch)	Relief Depth (mm)	Screen Reproducibility	Min. Fine Line (µm)	Min. Isolated Dot (µm)	Application										
									General Printing		Business Form		Label		Coating	Offset	Embossing	Pad	UV Flexo
									Letters	Photos	Business Form	Back Carbon	Desensitized	Label (Flatbed)					
CTP	K	Film	QF95KC	0.95 / 0.037	0.68	175 (lpi 1~95%)	30	200											
		Steel	QM73KR	0.73 / 0.029	0.43	175 (lpi 1~95%)	25	150											
		Steel	QM83KR	0.83 / 0.033	0.53	175 (lpi 1~95%)	25	150											
		Film	QM95KU	0.95 / 0.037	0.69	175 (lpi 1~95%)	20	150											
		Film	QF80RC	0.80 / 0.031	0.53	200 (lpi 1~95%)	10	200											
	R	Film	QF95RC	0.95 / 0.037	0.68	200 (lpi 1~95%)	10	200											
		Film	QF80JB	0.80 / 0.031	0.59	200 (lpi 1~95%)	25	200											
		Film	QF95JC	0.95 / 0.037	0.68	200 (lpi 1~95%)	25	200											
		Steel	QM73JL	0.73 / 0.029	0.54	200 (lpi 1~95%)	25	150											
		Steel	QM95JT	0.95 / 0.037	0.69	200 (lpi 1~95%)	25	200											
S	40°	Film	QF70SA	0.70 / 0.028	0.55	150 (lpi 1~95%)	25	150											
		Film	QF95SB	0.95 / 0.037	0.74	150 (lpi 1~95%)	30	200											
		Film	QF95ZA	0.95 / 0.037	0.80	150 (lpi 1~95%)	10	200											
		Film	QF114ZB	1.14 / 0.045	0.93	150 (lpi 1~95%)	10	200											
		Film	QF170ZB	1.70 / 0.067	1.49	150 (lpi 1~95%)	10	200											
Analog	P	Steel	PM43S	0.43 / 0.017	0.21	150 (lpi 3~95%)	30	100											
			PM73R	0.73 / 0.029	0.43	150 (lpi 3~95%)	40	200											
			KF43GA	0.43 / 0.017	0.28	150 (lpi 3~95%)	30	100											
			KF95GC	0.95 / 0.037	0.68	150 (lpi 3~95%)	40	200											
			KF95MC	0.95 / 0.037	0.68	175 (lpi 1~95%)	40	200											
	K	67°	Steel	KF152GD	1.52 / 0.060	1.15	150 (lpi 3~95%)	50	400										
				KM43GS	0.43 / 0.017	0.21	150 (lpi 3~95%)	30	100										
				KM73GR	0.73 / 0.029	0.43	150 (lpi 3~95%)	40	200										
				KM73MR	0.73 / 0.029	0.43	175 (lpi 1~95%)	40	200										
				KM83GR	0.83 / 0.033	0.53	150 (lpi 3~95%)	40	200										
R	55°	Film	KM83MR	0.83 / 0.033	0.53	175 (lpi 1~95%)	40	200											
			KM95GR	0.95 / 0.037	0.65	150 (lpi 3~95%)	40	200											
			KM95MR	0.95 / 0.037	0.65	175 (lpi 1~95%)	40	200											
			KM152GR	1.52 / 0.060	1.22	150 (lpi 3~95%)	50	400											
			RF80MB	0.80 / 0.031	0.59	175 (lpi 1~95%)	30	200											
E	55°	Film	RF95MC	0.95 / 0.037	0.68	175 (lpi 1~95%)	30	200											
			JF95C	0.95 / 0.037	0.68	175 (lpi 1~95%)	40	200											
			EF95GC	0.95 / 0.037	0.68	150 (lpi 3~95%)	40	200											
			EF95MC	0.95 / 0.037	0.68	175 (lpi 1~95%)	40	200											
			SF70GA	0.70 / 0.028	0.55	150 (lpi 3~95%)	40	200											
Z	20°	Film	SF95GB	0.95 / 0.037	0.74	150 (lpi 3~95%)	40	200											
			ZF95GB	0.95 / 0.037	0.74	150 (lpi 3~95%)	30	200											
			ZF114GB	1.14 / 0.045	0.93	150 (lpi 3~95%)	80	200											
			ZF170GB	1.70 / 0.067	1.49	150 (lpi 3~95%)	80	300											
			ZF200GB	2.00 / 0.079	1.79	150 (lpi 3~95%)	100	400											

※All figures are representative values.
 ※Measured with back exposure.