



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

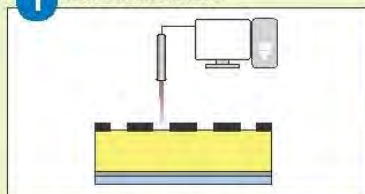
Printight™ CTP Characteristics

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

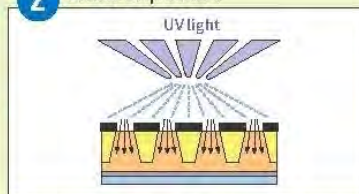
digital

1 Laser Ablation



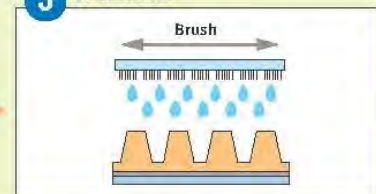
Depict images through an IR laser head to a laser ablation layer directly.

2 Main Exposure



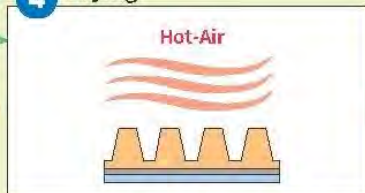
Expose to UV light with 360nm wave lengths.

3 Washout



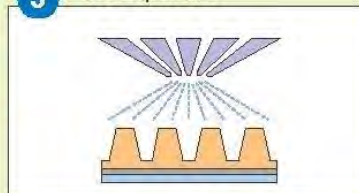
Wash out with tap water.
Use washout machines suitable for Printight™.

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?

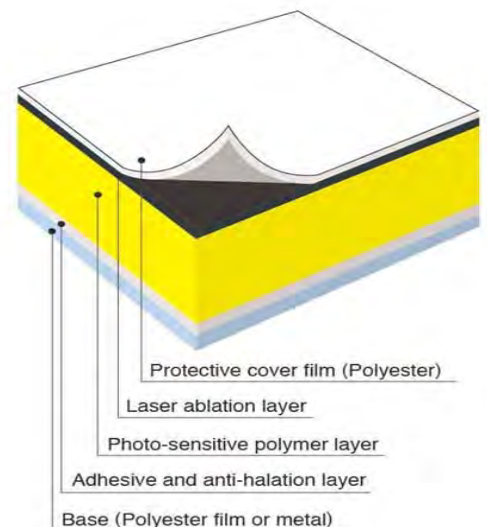
A: It is recommended to handle unprocessed plates under yellow safe lights or UV cut lamps.

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.

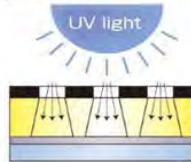
Printight® Plate Making Process (Analog)

1 Contact with negative film



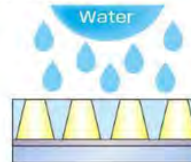
Remove the cover film and place a negative film on the undeveloped plate. Use a negative film having the optical density of no less than 3.0.

2 Exposure



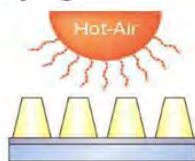
Expose the plate through the negative film to UV light having 360 nm wave length. Determine the correct exposure time using a 21 steps grey scale. Follow "TIPS FOR Printight®" in each case.

3 Washout



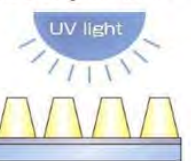
Remove the negative film. Washout the exposed plate with water. Use the special washout machine suitable for TOYOBO Printight®. Washout time depends on the thickness of the plate. Follow "TIPS FOR Printight®" in each case. Rinse the washed out plate with fresh water.

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?

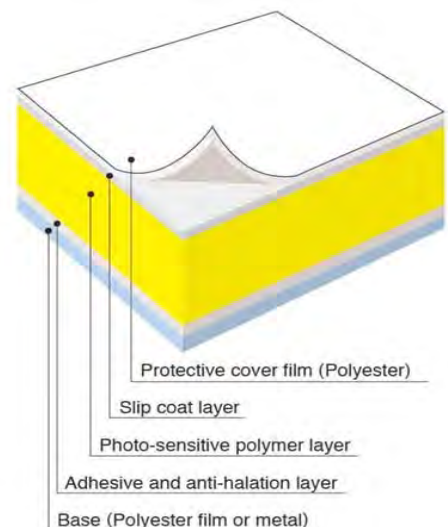
A: It is recommended to handle unprocessed plates under yellow safe lights or UV cut lamps.

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"



PrintRight 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)			Label (Rotary)	Crush Print				
CTP	K	Film	QF95KC	0.95 / 0.037	0.68	175 lpi 1 ~ 95%	30	200														
			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														
			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														
			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														
			QM95JT	0.95 / 0.037	0.69	200 lpi 1 ~ 95%	25	200														
Analog	S	Film	QF70SA	0.70 / 0.028	0.55	150 lpi 1 ~ 95%	25	150														
			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														
			QF170ZB	1.70 / 0.067	1.49	150 lpi 1 ~ 95%	10	200														
	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														
		Film	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														
		Film	KF95MC	0.95 / 0.037	0.68	175 lpi 1 ~ 95%	40	200														
K			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														
		Steel	KM83GR	0.83 / 0.033	0.53	150 lpi 3 ~ 95%	40	200														
	R		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														
		Film	RF80MB	0.80 / 0.031	0.59	175 lpi 1 ~ 95%	30	200														
E	R	Film	RF95MC	0.95 / 0.037	0.68	175 lpi 1 ~ 95%	30	200														
		Film	JF95C	0.95 / 0.037	0.68	175 lpi 1 ~ 95%	40	200														
		Film	EF95GC	0.95 / 0.037	0.68	150 lpi 3 ~ 95%	40	200														
		Film	EF95MC	0.95 / 0.037	0.68	175 lpi 1 ~ 95%	40	200														
		Film	SF70GA	0.70 / 0.028	0.55	150 lpi 3 ~ 95%	40	200														
	S	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														
		Film	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														
		Film	ZF200GB	2.00 / 0.079	1.79	150 lpi 3 ~ 95%	100	400														

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