



#### **TOYOBO** TOYOBO MC Corporation

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Protective Cover Film (Polyester

Slip Coat Layer

Adhesive Layer

Base (Polvester Film)

Photo-sensitive Polymer Layer

Structure of Plate

# The Environmentally Friendly Way to Process Flexo Plates

We, the pioneer of a Water-washable letterpress plate, have commercialized the world's first Water-washable flexo plate, Cosmolight™.

This revolutionary plate eliminates the use of toxic, environmentally damaging solvents from a plate-making process to produce a press-ready plate in one hour or less.

With TOYOBO MC's core technology in polymerization and modification, Cosmolight™ achieved a feature of water-wash and tolerance against water-based ink, as well as solvent-based, alcohol-based and UV inks.

#### Feature of Cosmelight.

- 1. Washout in tap water with a small amount of mild detergent. The plate makes the working environment free from dangerous hydrocarbon and hazardous washout solvents.
- 2. Plates are "press-ready" within an hour and "press-down time" is dramatically reduced.
- 3. Rich ink transfer and sharp highlight, sometimes referred as contradictory characteristics, are ensured thanks to TOYOBO MC's unique polymer technology.
- 4. Solvent-based, water-based, alcohol-base and UV ink can be used with excellent resistance.
- 5. Excellent ink transfer and resistance with water-based varnish and UV varnish.
- **6.** Excellent plate thickness accuracy, allows "kiss-touch" printing pressure.

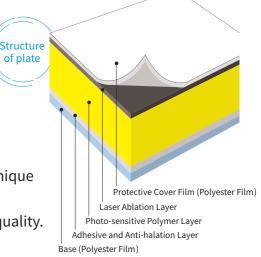


### Feature of Cosmelight. CTP

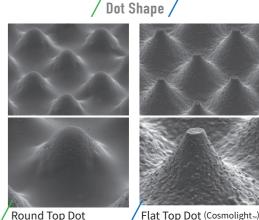
- 1. Solvent-free in the plate-making process, toxic-free for operators.
- 2. Total plate-making time within one hour.
- 3. Built-in flat top dot reproduced with TOYOBO MC's unique LAMS technology.

It achieves minimum dot gains and consistent print quality.

4. Compatible with various screening technologies.



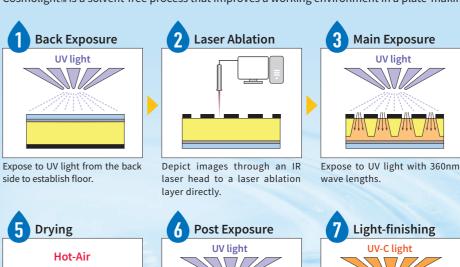


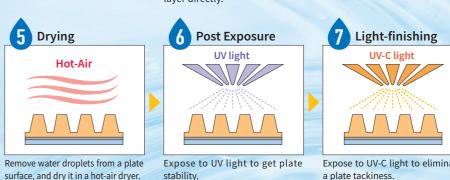


UV light

#### Cosmelight. CTP Plate-making Process

Washout in tap water at 40°C (104°F) with a small amount of mild detergent. Cosmolight<sub>™</sub> is a solvent-free process that improves a working environment in a plate-making room.





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



small amount of mild detergent. Use washout machines for

## **Cosmelight**. Type and Application

		Plate Thickness (mm/inch)	Plate Hardness (Shore A)	Screen Reproducibility	Min. Fine Line (μm)	Min. Isolated Dot (μm)	Standard Size (mm/inch)	Application							
								Cloth Tag	Envelope	Folding Carton	Label		Flexible	Coating	
								Cloth rag			Paper	Film	Packaging	Aqueous Varnish	UV Varnish
СТР	QZ	1.14 / 0.045	77	200lpi 1∼95%	20	100	635×762 (25"×30") 900×1200 (35"×47") 1067×1524 (42"×60")								
		1.70 / 0.067	71	200lpi 1∼95%	20	100									
	QН	0.95 / 0.037	83	175lpi 1~95%	40	150									
		1.14 / 0.045	81	175lpi 1∼95%	40	150									
		1.70 / 0.067	76	175lpi 1~95%	40	150									
	QS	1.14 / 0.045	77	175lpi 1∼95%	30	100									
		1.70 / 0.067	71	175lpi 1~95%	30	100									
		2.54 / 0.100	65	175lpi 1~95%	30	100									
		2.84 / 0.112	64	175lpi 1~95%	30	100									
	QO	1.14 / 0.045	71	150lpi 2~95%	50	150									
		1.70 / 0.067	60	150lpi 2~95%	50	150									
		2.54 / 0.100	52	150lpi 2∼95%	50	150									
		2.84 / 0.112	50	150lpi 2∼95%	50	150									
	QT	1.14 / 0.045	77	150lpi 2~95%	30	200	457×610 (18"×24")								
		1.70 / 0.067	71	150lpi 2~95%	30	200									
Analog	NZ	1.14 / 0.045	77	175lpi 1~95%	30	100	457×610 (18"×24") 610×762 (24"×30") 762×1016 (30"×40")								
		1.70 / 0.067	71	175lpi 1~95%	30	100									
	NH	0.95 / 0.037	83	175lpi 1~95%	40	100									
		1.14 / 0.045	81	175lpi 1∼95%	40	100									
		1.70 / 0.067	76	175lpi 1~95%	40	100									
		1.14 / 0.045	77	175lpi 1~95%	30	100									
	NS	1.70 / 0.067	71	175lpi 1~95%	30	100									
		2.54 / 0.100	65	175lpi 1∼95%	30	100									
		2.84 / 0.112	64	175lpi 1~95%	30	100									
	NEO	1.14 / 0.045	71	150lpi 2∼95%	50	150									
		1.70 / 0.067	60	150lpi 2∼95%	50	150									
		2.54 / 0.100	52	150lpi 2∼95%	50	150									
		2.84 / 0.112	50	150lpi 2∼95%	50	150									
	NTE	1.14 / 0.045	77	150lpi 2~95%	30	200	457×610 (18"×24")								
		1.70 / 0.067	71	150lpi 2~95%	30	200									