

Y Type - Pad Printing Plates - Water Wash

TYPE	Base material	Thickness				Hardness Shore D	Relief Reproduction			Typical Application
		Total		Relief			Half Tone	Minimum isolated dot	Narrowest Line	
		mm	in	mm	in					
WS83HY3	Steel	0.83	0.033	0.56	0.022	65°	200L (1-95%)	120µm	40µm	Pad Printing
WS95HY3	Steel	0.95	0.037	0.68	0.027	65°	200L (1-95%)	120µm	40µm	Pad Printing
WS73FHY3	Steel	0.73	0.029	0.56	0.022	65°	200L (1-95%)	120µm	40µm	Pad Printing
WS58HY3	Steel	0.58	0.023	0.31	0.012	65°	200L (1-95%)	120µm	40µm	Pad Printing

Wash out - Water/by Brush

K Type -Pad Printing Plates - Water Wash

TYPE	Base material	Thickness				Hardness Shore D	Relief Reproduction			Typical Application
		Total		Relief			Half Tone	Minimum isolated dot	Narrowest Line	
		mm	in	mm	in					
WS73HKII	Steel	0.73	0.029	0.46	0.018	65°	200L (1-98%)	100µm	20µm	Pad Printing
WS 83HKII	Steel	0.83	0.033	0.56	0.022	65°	200L (1-98%)	100µm	20µm	Pad Printing
WS95HKII	Steel	0.95	0.037	0.68	0.027	65°	200L (1-98%)	100µm	20µm	Pad Printing

Wash out - Water/by Brush



TORELIEF

TORAY Photo-Sensitive Relief Printing Plate

Features of TORELIEF

- 1 Incomparable image reproduction**
Its excellent image reproduction assures constant higher quality printing.
- 2 Good contact with negative film**
Matte finished surface of TORELIEF ensures good contact between the plate surface and negative film.
- 3 Easy and fast plate-making process**
TORELIEF is an easy and fast plate to make with its quick exposure and quick washout properties.
- 4 Color change for easier inspection**
TORELIEF W type plates feature color change by exposure, for easier plate inspection and mounting.
- 5 Environmentally friendly**
All TORELIEF plates are made of environmentally friendly ingredients and require no chemicals in processing.
- 6 Superior ink receptivity**
TORELIEF plates, especially soft and flexible BS, SS & U plates have superior ink receptivity which stands out among the competition and makes them ideal for business form and varnishing applications.
- 7 Higher durability**
Due to tough & abrasion resistant polymer being used as one of its main components, TORELIEF features an extra long printing life.

Plate Type

One of the biggest advantages of our product is the variety of plates' types. This variety enables you to apply appropriate plate according to the job or the machine specification. The table below shows comparison of each plate types' characteristics.

Water Washable	W-type	Y-type	K-type
Polymer	Nylon	PVA/Water-soluble	PVA/Water-soluble
Image Reproducibility	Good	Excellent	Excellent
Durability	Excellent	Good	Excellent
Ink Transfer	Excellent	Excellent	Excellent

TORELIEF Plate Line-up

UV Flexo - Water washable Digital Plates

TYPE	Base material	Thickness				Hardness Shore A	Relief Reproduction			Typical Application
		Total		Relief			Half Tone	Minimum isolated dot	Narrowest Line	
		mm	in	mm	in					
DF114YSE	Polyester film	1.14	0.044	0.55	0.022	75°	150L (2-95%)	150µm	40µm	Label Printing & UV Varnish
DF170YSE	Polyester film	1.70	0.066	0.65	0.025	75°	150L (2-95%)	150µm	40µm	Label Printing & UV Varnish
DF114HRIII	Polyester film	1.14	0.044	0.55	0.022	70°	175L (2-95%)	100µm	30µm	Label Printing

Wash out - Water/by Brush

Usable Laser - "Fiber Lasers,IR Laser/Wavelength=2.0 J/sqcm"

UV Flexo - Water washable Analogue Plates

TYPE	Base material	Thickness				Hardness Shore A	Relief Reproduction			Typical Application
		Total		Relief			Half Tone	Minimum isolated dot	Narrowest Line	
		mm	in	mm	in					
WF114YSE	Polyester film	1.14	0.044	0.55	0.022	75°	150L (2-95%)	150µm	40µm	Label Printing & UV Varnish
WF170YSE	Polyester film	1.70	0.066	0.65	0.025	75°	150L (2-95%)	150µm	40µm	Label Printing & UV Varnish

Wash out - Water/by Brush

W Type - Water washable Digital

DWF 95D3	Polyester film	0.95	0.037	0.65	0.026	55°	175L (2-98%)	200µm	40µm	Label Printing
DWF 95BS4	Polyester film	0.95	0.037	0.72	0.028	30°	150L (2-98%)	180µm	40µm	Label Printing

Y Type - Water washable Digital Plates

TYPE	Base material	Thickness				Hardness Shore D	Relief Reproduction			Typical Application
		Total		Relief			Half Tone	Minimum isolated dot	Narrowest Line	
		mm	in	mm	in					
DWF80NM	Polyester film	0.80	0.031	0.5	-0.02	55°	200L (1-98%)	100µm	20µm	Label Printing & Emboss
DWF95NM	Polyester film	0.95	0.037	0.65	0.026	55°	200L (1-98%)	100µm	20µm	Label Printing & Emboss

Wash out - Water/by Brush

Usable Laser - "Fiber Lasers,IR Laser/Wavelength=830-1070nm"

K Type - Water washable Digital Plates

TYPE	Base material	Thickness				Hardness Shore D	Relief Reproduction			Typical Application
		Total		Relief			Half Tone	Minimum isolated dot	Narrowest Line	
		mm	in	mm	in					
DWS73HKII	Steel	0.73	0.029	0.46	0.018	65°	200L (1-98%)	100µm	20µm	Dry Offset & Emboss
DWS83HKII	Steel	0.83	0.033	0.56	0.022	65°	200L (1-98%)	100µm	20µm	Dry Offset & Emboss
DWS 95HKII	Steel	0.95	0.037	0.68	0.027	65°	200L (1-98%)	100µm	20µm	Dry Offset & Emboss

Usable Laser - "Fiber Lasers,IR Laser/Wavelength=830-1070nm"

W Type - Water washable Analogue Plates

TYPE	Base material	Thickness				Hardness Shore D	Relief Reproduction			Typical Application
		Total		Relief			Half Tone	Minimum isolated dot	Narrowest Line	
		mm	in	mm	in					
WF48II	Polyester film	0.5	0.02	0.35	0.014	55°	175L	200µm	40µm	Label Printing
WF95DII	Polyester film	0.95	0.037	0.65	0.026	55°	175L	200µm	40µm	Label Printing
WF95BII	Polyester film	0.95	0.037	0.73	0.029	40°	150L (5-95%)	200µm	50µm	Label Printing & Business Forms
WF95BS2N	Polyester film	0.95	0.037	0.73	0.029	30°	150L	200µm	50µm	Business Forms

Y Type - Water washable Analogue Plates

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		Total		Relief			Half Tone	Minimum isolated dot	Narrowest Line	
		mm	in	mm	in					
WF80DY3	Polyester film	0.8	0.031	0.5	0.02	55°	200L (1-95%)	120µm	40µm	Label Printing
WF95DY3	Polyester film	0.95	0.037	0.65	0.026	55°	200L (1-95%)	120µm	40µm	Label Printing
WS83HY3	Steel	0.83	0.033	0.56	0.022	65°	200L (1-95%)	120µm	40µm	Dry Offset & Emboss
WS95HY3	Steel	0.95	0.037	0.68	0.027	65°	200L (1-95%)	120µm	40µm	Dry Offset & Emboss
WS73FHY3	Steel	0.73	0.029	0.56	0.022	65°	200L (1-95%)	120µm	40µm	Dry Offset & Emboss
WS58HY3	Steel	0.58	0.023	0.31	0.012	65°	200L (1-95%)	120µm	40µm	Dry Offset & Emboss

Wash out - Water/by Brush

K Type - Water washable Analogue Plates

TYPE	Base material	Thickness				Hardness Shore D	Relief Reproduction			Typical Application
		Total		Relief			Half Tone	Minimum isolated dot	Narrowest Line	
		mm	in	mm	in					
WF80DKII	Polyester film	0.80	0.031	0.51	0.020	55°	200L (1-98%)	100µm	20µm	Label Printing
WF95DKII	Polyester film	0.95	0.037	0.66	0.026	55°	200L (1-98%)	100µm	20µm	Label Printing
WS73HKII	Steel	0.73	0.029	0.46	0.018	65°	200L (1-98%)	100µm	20µm	Dry Offset & Emboss
WS 83HKII	Steel	0.83	0.033	0.56	0.022	65°	200L (1-98%)	100µm	20µm	Dry Offset & Emboss
WS95HKII	Steel	0.95	0.037	0.68	0.027	65°	200L (1-98%)	100µm	20µm	Dry Offset & Emboss

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