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nyloprint® WF SHARP Digital

The Smart Choice For Sharp Printing

Water washable, film-based plate for the high-end label market

THE SMART CHOICE
FOR SHARP PRINT



Applications

- + High performance label printing plate for high line screen ruling – up to 200 lpi
- + Also suitable for aluminum and plastic laminated tubes

Superior print performance

- + Optimized hardness for enhanced reproduction of finest highlights and details as well as uniform, smooth vignettes
- + Sharply defined text, barcodes and elements
- + Superior ink transfer for improved ink laydown and smooth, even solids
- + Digital imaging with up to 10,160 dpi for superior print quality with sharper images, more open reverses and finer highlights. The digital workflow allows data transfer without loss of quality

Efficient and sustainable

- + Suitable for processing with all types of processing equipment, with plush and brush washers and TLO9, TL10 and LED exposure
- + Consistent reproducibility due to wide exposure latitude combined with deep intermediate depths
- + Perfect visual quality control due to excellent transparency of base film and good color contrast of print relief
- + Easy adaption to different cylinder diameters due to high flexibility of the polyester base
- + Low curling for smooth plate processing and better reusability, reducing waste rates
- + Long-term durability and production consistency, for reduced operating costs
- + Very good stability in storage and reusability, which saves costs for remakes
- + Consistent long-term repeatability ensures production consistency, especially for repeat orders



PLATE PROCESSING

Digital imaging with up to 10,160 dpi for superior print quality with sharper images, more open reverses and finer highlights. The digital workflow allows data transfer without loss of quality.



SEGMENTS

Ideal for **high quality label print** jobs as well as for aluminum and plastic laminated tubes.

XSYS
Print solid. Stay flexible.

Where printing meets packaging.

nyloprint® WF SHARP Digital

	nyloprint® WF SHARP Digital 80	nyloprint® WF SHARP Digital 95
Technical characteristics		
Base material	polyester film	polyester film
Colour of raw plate	green	green
Total thickness ¹ (mm inch)	0.80 0.031	0.95 0.037
Plate hardness (Microshore D Shore D)	51 74	45 70
Relief depth (mm inch)	0.51 0.020	0.66 0.026
Tonal range (%)	1 - 98	1 - 98
Fine line width (down to µm)	< 100	< 100
Isolated dot diameter (down to µm)	200	200
Distortion factor (mm inch)	4.27 0.168	5.32 0.209

Processing parameters²

Laser energy (J/cm ²) approx.	2.4	2.4
Main exposure (min)	3 - 5	3 - 5
Washout at 30°C / 86°F (min) approx.	3 - 5	3 - 5
Washout in flowline equipment at 30°C / 86°F (mm/min) approx.	150 - 200	150 - 200
Washout in flowline equipment at 25°C / 77°F (mm/min) approx.	130 - 180	130 - 180
Drying time at 60°C / 140°F (min)	10 - 15	10 - 15
Post exposure (min)	2	2

Processing Equipment

Suitable equipment	nyloprint® WF SHARP Digital plates can be processed with nyloprint® processing equipment and all similar devices. nyloprint® WF SHARP Digital is suitable with brush and plush washers as well as with tube types 09N and 10R and LED exposure. nyloprint® WF SHARP Digital plates can be used with all laser systems suitable for imaging letterpress plates.
Printing inks and varnishes	Suitable for UV and oil based inks and varnishes.
Washout medium	For washout only tap water is needed.
Processing information	A detailed description of the individual platemaking steps, as well as detailed information about processing and storing can be found in the nyloprint® User Guide.
Certification	XSYS printing plates are produced at Willstätt production site, which is certified according to international standards for quality management (DIN EN ISO 9001:2015), environmental management (DIN EN ISO14001:2015) and energy management (DIN EN ISO 50001:2018).

1) Standard thicknesses currently available - subject to change. 2) All processing parameters depend on, among others, the processing equipment and lamp age. The above mentioned processing parameters were established under optimum conditions on nyloprint® processing equipment. Under other conditions the processing times can differ from these. Therefore, the above mentioned values are only to be used as a guide.

Please contact us for additional information.

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