XSYS

Print solid. Stay flexible.

nyloprint®
WS W

Steel based letterpress printing plate with improved reproduction characteristics

Be
brilliant.

HIGHEST PRINT QUALITY

- High print contrast with an exceptional tonal range.
- Smaller halftone dots (< 20 micron) resulting in brilliant gradations and fading of vignettes.
- High resolution – up to 10 160 dpi.
- Excellent solid density due to optimised surface with brilliant ink transfer.
- Very good durability for long print runs.

IMPROVED REPRODUCTION CHARACTERISTICS

- Steeper relief shoulders and deeper reverses.
- Higher definition / fidelity.
- Crisper edges.
- Reproduction of smallest elements on plate and print.
- Superior results in combination with LED exposure.

EFFICIENT, RELIABLE AND FAST PLATE PROCESSING

- Plate processing within 25-35 min.
- Highly productive and cost efficient.
- Wide exposure latitude.
- Excellent visual check due to high colour contrast of the finished plate.
- Suitable for processing with brush and plush washers as well as for exposure with UV-A tubes of type 09N and 10R.

PRODUCT APPLICATIONS

- Ideal for tubes, cups and cans printing, security printing and label printing.
- Suitable for rotary letterpress, imprinting units and special-purpose printing presses.

Be
brilliant.

nyloprint®
WS W

ADVANTAGES OF nyloprint® DIGITAL

Higher print quality

- Reproduction of finer details and less dot gain due to digital imaging.
- High dimensional stability.
- No defects caused by dust and damaged films.
- No data loss during transfer.
- Smoother plate surface can achieve higher density.
- Highly consistentcy especially with repeated plate processing.

Cost effective and environmentally friendly

- No film costs.
- No chemicals for film development.
- Electronic filing of graphics, film storage is redundant.
- Easy and fast data exchange - worldwide.

IMPROVED REPRODUCTION CHARACTERISTICS

nyloprint®

WS W Digital

Steel based letterpress printing plate with improved reproduction characteristics

	nyloprint® WS W Digital		
Technical characteristics[1]	**73**	**83**	**94**
Base material		steel	
Colour of raw plate		red	
Total thickness[2] (mm | inch)	0.73 | 0.029″	0.83 | 0.033″	0.94 | 0.037″
Plate hardness (Shore D)	77	76	73
Relief depth (mm | inch)	0.46 | 0.018″	0.56 | 0.022″	0.67 | 0.026″
Tonal range (%) at screen ruling of		1 - 98 60 l/cm (150 lpi))	
Fine line width (down to µm)		< 100	
Isolated dot diameter (down to µm)		< 200	
Distortion factor (mm | inch)	3.85 | 0.152″	4.49 | 0.177″	5.19 | 0.204″

Processing parameters [1]	
Main exposure (min)	1.0 - 3.5
Washout at 30°C / 86° F (min)	2.0 - 3.5
Drying time at 80°C / 176°F (min)	10 - 15
Post exposure (min)	2

Processing Equipment

Suitable equipment nyloprint® WS W Digital plates can be processed with nyloprint® processing equipment and all similar devices and be used with all laser systems suitable for imaging letterpress plates.

Printing Inks 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) All processing parameters and technical specifications 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. Therefore the above mentioned values are only to be used as a guide.

Please contact us for additional information.
info@xsysglobal.com • www.xsysglobal.com

Our technical documents are designed to inform and guide our customers. The information provided herein is accurate to the best of XSYS's knowledge; however, we accept no liability for any errors, inaccuracies, or opinions expressed. Customers are responsible for determining the suitability of this product for their specific application. XSYS assumes no responsibility for any loss incurred as a result of reliance on the information contained in this document. Product names followed by ® are registered trademarks of XSYS Germany GmbH and/or its affiliates.

XSYS

Print solid. Stay flexible.

02-2025

XSYS

Print solid. Stay flexible.