

Be
brilliant.

nyloprint® WS PRO Digital

Steel based letterpress printing plate with enhanced print characteristics



Product features

+ Enhanced plate quality

- + For precise reproduction of fine highlights and smooth, uniform vignettes
- + LED optimized plate formulation
- + High resolution - up to 10 160 dpi

+ Efficient, constant and fast plate processing

- + Highly productive and cost efficient
- + Optimized exposure characteristics when using an UV LED inline setup
- + Suitable for processing with all types of equipment - plush and brush washers as well as exposure with UV-A tubes of type O9N and 10R
- + Excellent contrast of the finished plate for easy visual check

+ Product applications

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

+ Highest print quality

- + High print contrast with an exceptional tonal range
- + For enhanced reproduction characteristics: finest details and deeper reverses - thus wide tonal range and soft fade-outs
- + Superior ink transfer, for very even ink laydown and improved solid ink density
- + Very good durability for long print runs

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 consistent especially when repeating 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

XSYS
Print solid. Stay flexible.

Where printing meets packaging.

nyloprint® WS PRO Digital- Data sheet

	nyloprint® WS PRO D				
	73	73T	83	94	95
Technical characteristics¹					
Base material	steel				
Colour of raw plate	green				
Total thickness (mm inch)	0.73 0.029"	0.73 0.029"	0.83 0.033"	0.94 0.037"	0.95 0.037"
Plate hardness (Shore D Microshore D)	78 54	75 54	75 54	71 53	71 53
Relief depth (mm inch)	0.46 0.018"	0.56 0.022"	0.56 0.022"	0.67 0.026"	0.68 0.027"
Tonal range (%) at 60 L/cm (150 lpi)	1 - 98%				
Fine line width (down to µm)	< 100				
Isolated dot diameter (down to µm)	< 200				
Distortion constant (mm inch)	3.85 0.152"	4.49 0.177"	4.49 0.177"	5.19 0.204"	5.25 0.206"

Processing parameters¹

Laser energy (J/cm ²) approx.	~ 2.8				
Main exposure (min)	2.5 - 4.5				
Washout at 30°C / 86° F (min) approx.	4 - 5				
Drying time at 80°C / 176°F (min)	10 - 15				
Post exposure (min)	2				

Processing Equipment

Suitable equipment	nyloprint® WS PRO Digital plates can be processed with nyloprint® processing equipment and all similar devices and 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) 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.

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