

Be
brilliant

XSYS

Print solid. Stay flexible.

nyloprint® printing plates



nyloprint® printing plates- overview

nyloprint®	WF SHARP	WF-H	WF-Q	WF-S	WS	WS-S	WS-T	WS-W	WA	WA-S	WSA	S	ST	DLE
Washout medium														
Analogue Digital	- D	A D	A -	A -	A D	A D	A D	A D	A -	A D	A D	A -	A -	laser direct
Label printing	✓	✓	✓	✓	✓	✓	✓	✓						
Tubes, cups and cans					✓		✓	✓						
Pad printing					✓						✓	✓	✓	✓
Security printing					✓	✓		✓		✓	✓	✓	✓	
Hot moulding & embossing		✓	✓		✓				✓					

For details please refer to the > nyloprint® technical data leaflet.

Spot-on performance with every application - nyloprint® printing plates



For label printing

Many labels are real works of art – this results in high demands on printing. In order to meet these requirements, a wide range of nyloprint® letterpress plates is offered. Whether on film or metal base – nyloprint® letterpress printing plates cope with every design.

Advantages of nyloprint® letterpress plates for label printing:

- + High print contrast with an exceptional tonal range
- + Brilliant halftone gradations
- + Very high resolution – up to 10000 dpi
- + Excellent ink transfer
- + Very good durability for long print runs
- + Reliably reusable for repeat orders

Film based plates for rotary letterpress:

- + nyloprint® WF SHARP Digital
- + nyloprint® WF-H / WF-H Digital
- + nyloprint® WF-Q
- + nyloprint® WF-S

Metal based plates for rotary, semi-rotary and flatbed letterpress:

- + nyloprint® WS / WS Digital
- + nyloprint® WS-W / WS-W Digital
- + nyloprint® WS-T / WS-T Digital
- + nyloprint® WS-S Digital



For tubes, cups and cans printing

The demand for more complex designs on packaging continues to increase. With the nyloprint® product range for tubes, cups and cans, it is possible to meet these challenges – the finest details are easily achieved. Whether printing on plastic or metal, the nyloprint® range offers a specialist solution.

Due to a wide exposure latitude and high resolution of nyloprint® letterpress plates, fine lines and type can be printed to perfection on tubes, cups and cans. With a good and homogeneous ink transfer, solids, line work and halftones look absolutely brilliant. The nyloprint® printing plates have the ability to print several million impressions easily.

Tubes, cups and cans printing:

- + nyloprint® WS / WS Digital
- + nyloprint® WS-W / WS-W Digital
- + nyloprint® WS-T / WS-T Digital



For pad printing

On plastics, glass, porcelain, enamel or ceramics – with nyloprint® pad printing plates designs and fine type can be transferred precisely on nearly all substrates and geometric shapes. Excellent detail reproduction, easy and fast plate processing are the outstanding attributes.

Due to the high abrasion resistance of the photopolymer plates, nyloprint® WSA and nyloprint® ST can perform long print runs that are otherwise only achieved by using steel gravure plates. The extremely high resolution (up to 10000 dpi) and wide tonal range enable the production of top quality printed products.

Short and medium print runs:

- + nyloprint® WS / WS Digital
- + nyloprint® S
- + nyloprint® DLE-S²

Long print runs and highest quality requirements:

- + nyloprint® WSA / WSA Digital
- + nyloprint® ST

¹ non-standard product
² for laser direct engraving

Spot-on performance with every application - nyloprint® printing plates



For security printing

In security printing, several different print processes are used for the production of one product. nyloprint® plates make a valuable contribution throughout.

Printing of micro text and guilloche patterns require the highest possible precision. With a resolution of up to 10000 dpi, nyloprint® plates are utilised for these extreme requirements.

nyloprint® poly chablon plates are used for inking-up the impression cylinder in intaglio printing presses. These plates have been developed after many years of experience in security printing and in close cooperation with customers.

nyloprint® intaglio master plates - In intaglio printing the nyloprint® gravure printing plate acts as the master form used in the galvanic processing of the actual printing plate. These plates make it possible to manufacture a complete form in one step, much quicker and easier than with previous processing methods. Many intermediate steps in the galvanic processing are no longer required thus reducing the chance of error.

Security printing - a matter of trust. Highest precision and reproducible quality are the basic requirements for security printing - nyloprint® stands for this.

Direct and indirect letterpress:

- + nyloprint® WS 43 /Digital¹
- + nyloprint® WS 58 /Digital
- + nyloprint® WS 73 /Digital
- + nyloprint® WS 73 W / Digital
- + nyloprint® WS 83 /Digital
- + nyloprint® WS 83 W Digital
- + nyloprint® WS 94 /Digital
- + nyloprint® WS 94 W Digital
- + nyloprint® S 58

Poly chablon plates:

- + nyloprint® WS 225¹
- + nyloprint® WS 230 S /Digital

Intaglio master plates:

- + nyloprint® WSA /Digital
- + nyloprint® ST

Coating plates:

- + nyloprint® WA-S¹ /Digital



For hot moulding and embossing

Embossing is one of the most sophisticated and effective print finishing techniques. It accentuates the details of the design and sets them apart from the background, creating a truly eye-catching result.

Due to the heat resistance properties (up to 130°C/266°F), the metal based nyloprint® WA 210/240 and nyloprint® WS 152/175 are ideally suited for hot moulding to produce rubber clichés.

Hot foil embossing:

- + nyloprint® WA 210, WA 240
- + nyloprint® WS 152, WS 175

Blind embossing - female die:

- + nyloprint® WS
- + nyloprint® WA

Blind embossing - male die:

- + nyloprint® WF-H
- + nyloprint® WF-Q



Advantages of nyloprint® Digital plates

- + Superior 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
 - Consistency in quality 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

Film based digital plates:

- + nyloprint® WF SHARP Digital
- + nyloprint® WF-H Digital

Steel based digital plates:

- + nyloprint® WS Digital
- + nyloprint® WS-W Digital
- + nyloprint® WS-T Digital
- + nyloprint® WS-S Digital
- + nyloprint® WSA Digital

¹ non-standard product

Where **printing**
meets **packaging.**



Where **expertise**
meets **freedom.**

Please contact us for additional information.

info@xsyglobal.com • www.xsyglobal.com

The aim of our technical documents is to inform and advise our customers. The information provided herein is correct to the best of Flint Group's knowledge. No liability for any errors, facts or opinions is accepted. Customers must satisfy themselves as to the suitability of this product for their application. No responsibility for any loss as a result of any person placing reliance on any material contained herein will be accepted. Product names followed by ® are trademarks registered by Flint Group.

XSYS

Print solid. Stay flexible.

2020-10