



FlatTopDot



## nyloflex® FTF Digital

The out of the box flat top dot textured plate is simple to process, robust in the press room while assuring brilliant print results



- + Hard photopolymer flexo plate with inherent flat top dots
- + Easy creation of flat top dots with your standard solvent processing equipment
- + Developed especially for the flexible packaging market where solvent-based inks are widespread
- + Special textured plate surface that eliminates the need of surface screening to achieve a good ink laydown in print



### Convincing print results

- + Smooth, homogenous solids, uniform vignettes and soft fade-outs
- + Significant improvement of the typical trail edge void effect
- + Even ink laydown and increased solid ink density
- + High print resolution – precise reproduction of fine elements (e.g. first stable tonal value 1.6 % at 60 l/cm)
- + Reduced bump-up for extended gamut



### Simplify prepress and plate making

- + Reduce cost, save time: No additional equipment, no time consuming LED exposure or any consumables required, no surface screening printing trials are needed.
- + Short laser time as you can use standard laser resolution (2.400 / 2.540 dpi)



### Improve productivity and consistency

- + Less dot gain tolerances – on press the Flat Top Dots are less impression sensitive than standard digital dots resulting in improved production consistency
- + Quick ready-to-press thus reduced start-up times and waste
- + Plate flatness greatly reduces mounting issues and plate lift on cylinders
- + High wear resistance

**Be**  
Brilliant.

**XSYS**  
Print solid. Stay flexible.

## nyloflex® FTF Digital

The out of the box flat top dot textured plate is simple to process, robust in the press room while assuring brilliant print results

Technical characteristics	nyloflex® FTF 114 Digital <sup>1</sup>	nyloflex® FTF 170 Digital <sup>1</sup>
Color of raw plate	light blue	light blue
Total thickness (mm) (inch) <sup>1</sup>	1.14 (0.045")	1.70 (0.067")
Hardness acc. to DIN 53505	62	62
Plate hardness (Shore A)	78	70
Recommended relief depth (mm)	0.5 - 0.6	0.5 - 0.8
Tonal range (%)	1 - 98	1 - 98
at screen ruling (l/cm)	60	60
Fine line width (down to µm)	100	100
Isolated dot diameter (down to µm)	200	200
Processing parameters <sup>2</sup>		
Back exposure (s)	20 - 30	30 - 50
Main exposure (min)	8 - 10	8 - 10
Washout speed (mm/min)	250	180 - 200
Drying time at 60°C / 140°F (h)	2.0	2.0
Post exposure UV-A (min)	10	10
Light finishing UV-C (min) <sup>3</sup>	1 - 2	1 - 2
Laser intensity (J/cm <sup>2</sup> )	Approx. 10% higher than for standard nyloflex® digital plates	

### Processing information

Suitable equipment	The nyloflex® FTF Digital can be processed with nyloflex® processing equipment and all similar devices and can be used with all laser systems suitable for imaging flexo printing plates.
Printing inks	Suitable for all solvent based printing inks and conditionally suitable for water based and UV inks. <sup>4</sup> (ethyl acetate content preferably below 15%, ketone content preferably below 5%).
Washout solvents	Especially good results are achieved with nylosolv® washout solvents. nylosolv® can be distilled and reused.
Processing information	A detailed description of the imaging, exposure and finishing steps, as well as detailed information about handling and storing, can be found in the nyloflex® User Guide.
High quality standard	nyloflex® printing plates are manufactured according to DIN ISO 9001, DIN ISO 14001 and DIN ISO 50001 standards and requirements. This process guarantees our customers consistent high quality products and services.

1) Standard thicknesses currently available - subject to change 2) All processing parameters depend on, among other things, the processing equipment, lamp age and the type of washout solvent. A minimum exposure intensity of  $\geq 17 \text{ mW/cm}^2$  is recommended. For exposure intensities higher than  $20 \text{ mW/cm}^2$  finest vignettes, down to zero, can be easily reproduced. The above mentioned processing times were established under optimum conditions on nyloflex® processing equipment and using nylosolv® washout solvents. Under other conditions the processing times can differ from these; therefore, the above mentioned values are only to be used as a guide. 3) Depending on longevity of the tubes. 4) Suitability with UV inks is dependant on the ink type and temperature - these factors could affect the performance of the plate and consistency of the print.

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 XSYS'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 XSYS Germany GmbH and/or its affiliates.



**XSYS**  
Print solid. Stay flexible.