

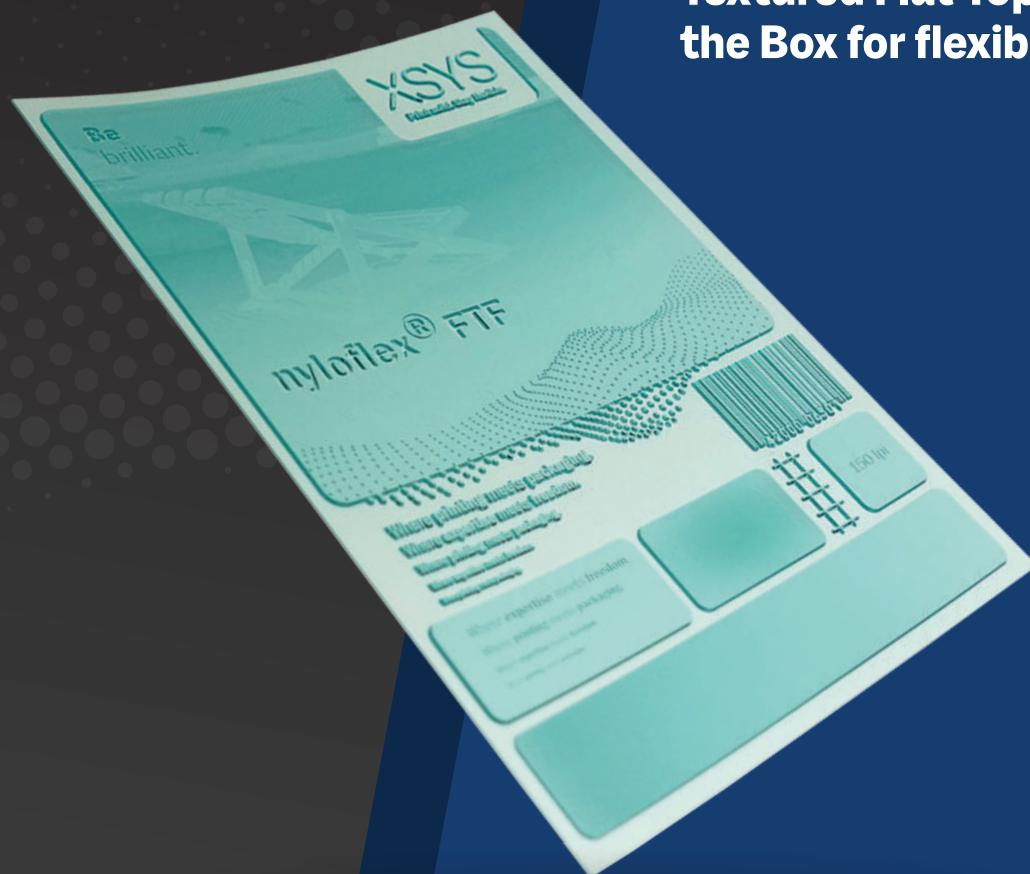
XSYS

Print solid. Stay flexible.



nyloflex[®] FTF

**Textured Flat Top Dots out of
the Box for flexible packaging**



Be
brilliant.

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 of 1.6% at 149 lpi).
- **Outstanding register accuracy** and consistency in print enables perfect suitability for ECG (Expanded color gamut) printing.



SIMPLIFY PREPRESS AND PLATE MAKING

- **Reduce cost, save time:** FTD out of the Box with special surface roughness, no additional equipment or any consumables required.
- **Simple & Easy creation** of flat top dots with your standard solvent processing equipment.



IMPROVE PRODUCTIVITY AND CONSISTENCY

- **Less dot gain variation** – on press due to flat top dot plate characteristic.
- **Ready to print quickly**, reduced start-up time and waste.
- **High wear resistance** supports longer, more consistent print runs.

nyloflex® FTF

- 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 and solvent-based inks.
- Special textured plate surface that eliminates the need of surface screening to achieve a good ink laydown in print.



**ACHIEVE SUPERIOR
ON-SHELF
APPEARANCE
WITH SMOOTHER SOLIDS
CONSISTENT
COLORS
AND UNIFORM HIGHLIGHTS**

**Be
brilliant.**



nyloflex[®] FTF Digital

**Textured Flat Top Dots out of the box.
Simple to process & robust on press-assuring
brilliant print results.**



Technical characteristics	nyloflex [®] FTF 114 Digital ¹	nyloflex [®] FTF 170 Digital ¹
Color of raw plate	light blue	light blue
Total thickness (mm) (inch) ¹	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 ²		
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) ³	1 - 2	1 - 2
Laser intensity (J/cm ²)	3.8 J/cm ² (depending on Laser manufacturer and model)	

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.⁴ (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.

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 ISO 14001:2015) and energy management (DIN EN ISO 50001:2018).

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. The above mentioned processing times were established under optimum conditions in our technical center. The standard test file with 149lpi was imaged at 4000DPI using a ThermoFlexX imager, 20 mW/cm² bank exposure, using nylosolv[®] A washout solvent and nyloflex[®] and ThermoFlexX Catena plate 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. 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@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 03-2025
Print solid. Stay flexible.

XSYS

Print solid. Stay flexible.