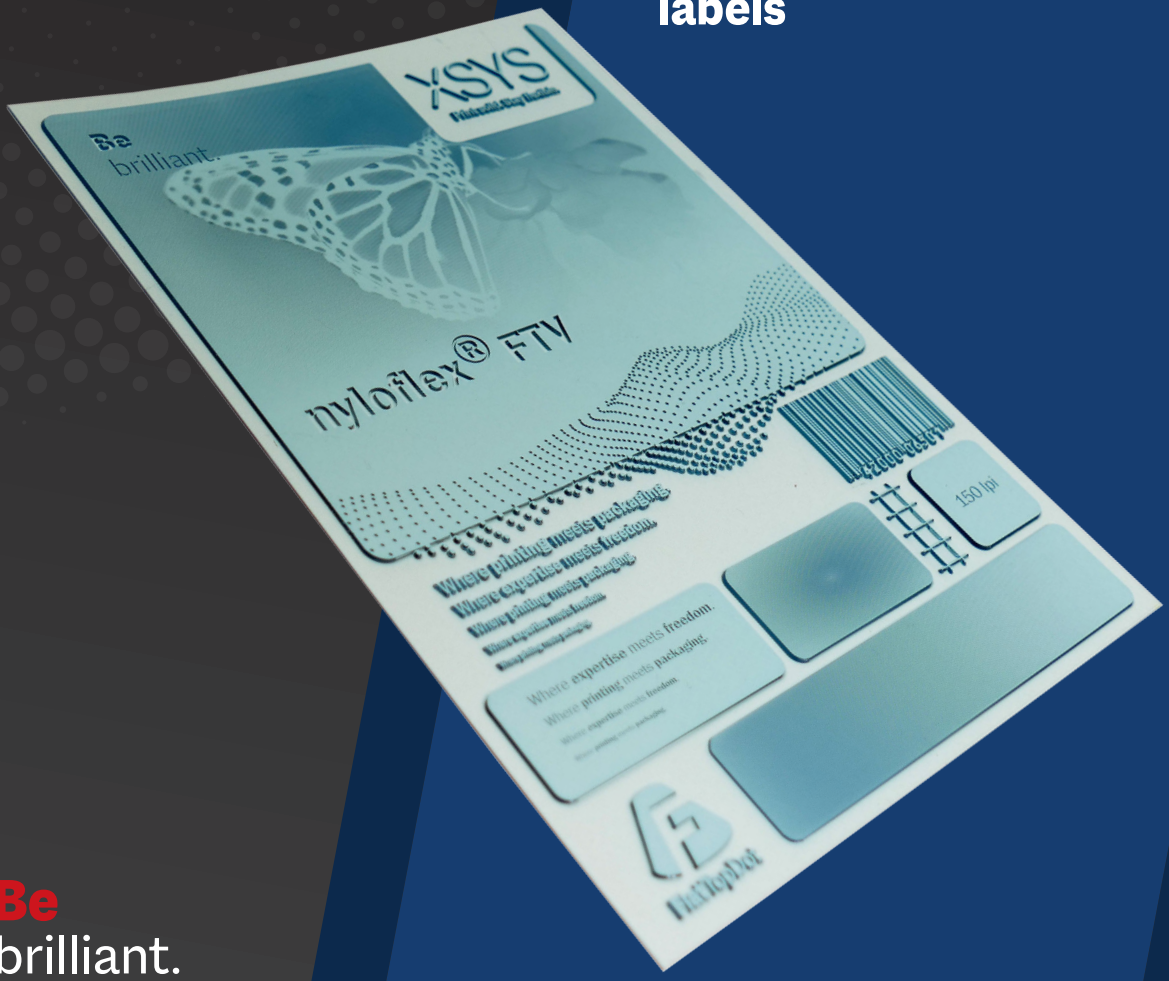
XSYS

Print solid. Stay flexible.

FlatTopDot

nyloflex®
FTV

Performance and Versatility for flexible packaging and labels



Be brilliant.

EXCEPTIONAL PRINT QUALITY

- **Print the finest** stable highlights - down to 0.8% at 60 L/cm*.
- **Maximum color gamut** achievable thanks to fine highlights and high solid ink density.

* LED exposed with Catena-E

COST & TIME SAVING IN PLATE MAKING

- **Reduce cost, save time** – no additional equipment or consumables required, fits in your existing digital plate making workflow.
- **Minimize waste** by combining flexible packaging and label jobs on one plate.
- **Consistent data transfer** and repeatability thanks to 1-1 copy.
- **Fast LED exposure times** - Below 8mins in combination with Catena E80.

COST & TIME SAVING IN PRINTING

- **Less press downtime** – no ink fill in thanks to the optimized plate formulation.
- **Up to 20% reduction of ink consumption** in combination with Woodpecker surface screening and the use of lower volume anilox rollers while maintaining increased solid ink density, opacity and general improved ink laydown.
- **Longer durability** thanks to less plate swelling on press.

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FTV

- LED optimized plate formulation also excels with bank exposure.
- The Smooth plate surface is able to hold all kind of surface screening patterns (e.g. Woodpecker Nano, Sharp & Nevis, Esko Q-Cells, Crystal & MCWSI).
- Suitable with solvent, water and energy curable inks.

BRILLIANT PACKAGING WITH OUTSTANDING PRINT RESULTS

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FTV Digital

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	nyloflex® FTV Digital			
Technical characteristics	**76**	**114**	**170**	**254**
Color of raw plate	blue			
Total thickness (mm | inch)	0.76 (0.030")	1.14 (0.045")	1.70 (0.067")	2.54 (0.100")
Plate hardness (micro Shore A)	68	67	67	67
Finished plate hardness (Shore A)	81	80	73	67
Recommended relief depth (mm)	0.5 - 0.6	0.5 – 0.7	0.6 – 0.9	0.9 – 1.2
First stable dot on plate (%)[1]	1.2	1.2	1.2	1.6
Measured dot size (50% dot) [1]	50.1%	50.1%	50.1%	50.1%
Fine line width (down to µm)	20	20	20	50
Isolated dot diameter (down to µm)	100	100	100	150

Processing parameters [1]				
Back exposure (s)	5 - 14	15 - 30	30 - 55	30 - 55
Main exposure (min)	8	8	8	8
Washout speed (mm/min)	205 - 270	205 - 270	180 - 250	170 - 240
LED exposure setting	See recommended nyloflex® FTV D exposure setting of the equipment manufacturer			
Drying time at 60°C / 140°F (h)	1.5 - 2.0	1.5 - 2.0	1.5 - 2.0	2.0
Post exposure UV-A (min)	8	8	8	8
Light finishing UV-C (min)[2]	2 - 4	2 - 4	2 - 4	2 - 4
Laser intensity (J/cm²)	3.4 J/cm² (depending on Laser manufacturer and model)			

Processing information

Suitable equipment The nyloflex® FTV can be processed with the XSYS equipment portfolio including ThemoFlexX Catena and nyloflex processing equipment and similar devices.

Printing inks Suitable for solvent based (ethyl acetate content preferably below 15%, ketone content preferably below 5 %), water based and energy curable (e.g. UV[3]) inks .

Washout solvents Especially good results are achieved with nylosolv® washout solvents.

Processing information A description of all processing steps, as well as 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 ISO14001:2015) and energy management (DIN EN ISO 50001:2018).

1) Processing parameters depend on equipment type, condition and wash out solvent in use. A minimum exposure intensity of ≥ 17 mW/cm² 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 may differ. 2) Depending on longevity of the tubes. 3) 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.
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