XSYS

Print solid. Stay flexible.

FlatTopDot

nyloflex®

FTM

Brilliant results on all paper substrates & film-based materials

Be
brilliant.

CONSISTENT PRINT RESULTS

- **Superior ink lay down** on diferent grades of paper substrates & film-based materials.
- **Better in highlights** than most market common plates at the same solid ink density increasing shelf appeal for brand owners.
- **Inherent flat** top dot technology ensures minimum dot wear resulting in less dot gain compared to round top dot plates.

REDUCED COSTS AND WASTE

- **Less plate waste** due to the easy combiantion of screen work and solids on only one plate.
- **Improving press up-time** by high wear resistant Flat Top Dots and plate characteristic of the FTM plate.

MORE SUSTAINABLE

- **Fulfils brand owner** sustainability requirements allowing printers to easily switch from printing on film to print on paper substrates with water based inks.

nyloflex®

FTM

- Medium hard inherent flat top dot flexographic printing plate with smooth plate surface for solvent plate processing.
- Flat top dots with standard tube or a LED UV-A light exposure.
- Developed especially for the corrugated preprint and aseptic market for use of water based inks.

LET YOUR BRAND SHINE RIGHT ON ALL KIND OF SUBSTRATES

Be brilliant.

nyloflex®

FTM Digital

Brilliant results on all paper substrates & film-based materials

	nyloflex® FTM Digital			
Technical characteristics	**114 D**	**170 D**	**254 D**	**284 D**
Base Material	Polyester film			
Color of raw plate	Blue			
Total thickness (mm) (inch)[1]	1.14 | 0.045	1.70 | 0.67	2.54 | 0.100	2.84 | 0.112
Plate hardness (Shore A)	75	64	56	52
Recommended relief depth (mm)	0.5 - 0.7	0.6 - 0.9	0.9 - 1.2	0.9 - 1.2
Tonal range (%)	1 - 98	1 - 98	1 - 98	1 - 98
at screen ruling (l/cm)	60	60	60	60
Fine line width (down to µm)	50	50	50	50
Isolated dot diameter (down to µm)	100	120	150	150

Processing parameters [2]				
Back exposure (s)	15 - 20	30 - 45	35 - 50	50 - 70
Main exposure (min)	8 - 10	8 - 10	8 - 10	8 - 10
Washout speed (mm/min)	200 - 260	200 - 230	170 - 190	135 - 180
Drying time at 60°C / 140°F (h)	1.5 - 2.0	2.0	2-3	2-3
Post exposure UV-A (min)	8	8	8	8
Post exposure UV-C (min)[3]	3 - 6	3 - 6	3 - 6	3 - 6
Laser Energy (J/cm2)	3.8	3.8	3.8	3.8
UVA bulb output (mW/cm2)	≥17	≥17	≥17	≥17

Processing information

Suitable equipment The nyloflex® FTM 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 water based printing inks (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 ISO14001:2015) 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 ≥ 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 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.
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