



nyloflex[®] FTV Digital

Fine highlights and brilliant solids regardless of your exposure technology



- + Hard photopolymer flexo plate with inherent flat top dots
- + Excels with bank exposure and LED optimized plate formulation.
- + Developed for the high end flexible packaging market.
- + Smooth plate surface is able to hold all customized surface screening patterns (e.g. Pixel+ and Woodpecker Sharp or Nano)



Exceptional print quality

- + Print the finest stable highlights - down to 0.8% at 60 L/cm*
- + Ideal for extended gamut thanks to consistent plate quality
- + Consistent maximum color gamut achievable thanks to fine highlights and high solid ink density.

* LED exposed with Catena-E



Reduce operating cost

- + Reduce cost, save time - no additional equipment or consumables required, fits in your existing digital plate making workflow.
- + Reduce your ink consumption thanks to optimum solid ink density and improved ink laydown achieved through surface screening.
- + Longer durability thanks to less plate swelling on press.



Improve productivity and consistency

- + Less press downtime - no ink fill in thanks to the optimized plate formulation.
- + Consistent data transfer and repeatability thanks to 1-1 copy
- + Fast LED exposure times.

Be
brilliant.

XSYS
Print solid. Stay flexible.

nyloflex® FTV Digital

The nyloflex® FTV Digital is a LED optimized inherent flat top dot plate for the high-end flexible packaging market.

Technical characteristics	nyloflex® FTV 114 Digital	nyloflex® FTV 170 Digital
Color of raw plate	blue	blue
Total thickness (mm inch) ¹	1,14 (0,045")	1,70 (0,067")
Plate hardness (micro Shore A)	67	67
Finished plate hardness (Shore A)	80	73
Recommended relief depth (mm)	0,5 - 0,7	0,6 - 0,9
First stable dot on plate (%) ²	1,2	1,2
Measured dot size (50% dot) ²	52.5%	50.1%
Fine line width (down to µm)	20	20
Isolated dot diameter (down to µm)	100	100

Processing parameters²

Back exposure (s)	26 - 14	53 - 32
Main exposure (min)	8	8
Washout speed (mm/min)	205 - 270	180 - 250
LED exposure setting	See recommended FTV D exposure setting of the equipment manufacturer	
Drying time at 60°C / 140°F (h)	2	2
Post exposure UV-A (min)	8	8
Light finishing UV-C (min) ³	2	2
Laser intensity (J/cm ²)	Same as for standard nyloflex® digital plates	

Processing information

Suitable equipment	The nyloflex® FTV can be processed with the XSYS equipment portfolio including ThermoFlexX Catena and nyloflex processing equipment and similar devices.
Printing inks	Suitable for all solvent based and UV inks conditional resistant 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.
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. 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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