

Rely on us.SM

nyloflex[®] FTF Digital

An inherently flat top flexo plate combined with a special, textured plate surface that eliminates the need for surface screening

The Easy Way!

The Easy Way

- Revolutionary plate technology especially for flexible packaging
- Inherently flat top flexo plate combined with a special, textured plate surface
- Easy creation of Flat Top Dots by simply processing the plate like any standard digital plate
- No additional equipment, processing steps or any consumables required
- Complexity reduction and efficiency gain in prepress and plate making
- Simplification and shorter laser time due to the possibility to use standard laser resolution (2.400/2.540 dpi)
- Time saving in prepress due to elimination of surface screening
- Superior finished plate flatness greatly reduces mounting issues and plate lift on cylinders
- Quick ready-to-press thus reduced start-up times and waste

High Quality

- Even ink laydown and increased solid ink density without the need for surface screening
- High print resolution – precise reproduction of fine elements (e.g. first stable tonal value 1.6% at 60 l/cm)
- Significant improvement of the typical trail edge void effect
- Smooth, homogenous solids, uniform vignettes and soft fade-outs

Provides the advantages related to the Flat Top Dot geometry

- Less dot gain tolerances – on press the Flat Top Dots are less impression sensitive than standard digital dots resulting in improved production consistency
- Reduced bump-up for extended gamut
- Higher wear resistance

FlintGroup
Flexographic Products

nyloflex® FTF Digital

	nyloflex® FTF Digital	
	114	170
Technical characteristics		
Base material	Polyester film	
Colour of raw plate	Light blue	
Total thickness ¹ (mm)	1.14	1.70
(inch)	0.045"	0.067"
Hardness acc. to DIN 53505 (Shore A)	62	62
Plate hardness (Shore A)	78	70
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)	8	8
Light finishing UV-C (min) ³	1 – 2	1 – 2
Laser intensity (J/cm ²)	3.8 J/cm ²	3.8 J/cm ²
UV A bulb output ⁴	≥ 17 mW/cm ²	≥ 17 mW/cm ²

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

The nyloflex® FTF Digital is suitable for all alcohol based printing inks and conditionally suitable for water based and UV inks.⁵ (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 individual plate making steps, as well as detailed information about processing and storing, can be found in the nyloflex® User Guide.

High quality standard

nyloflex® printing plates are manufactured according to DIN ISO 9001 and DIN ISO 14001 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. 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 Minimum exposure intensity of ≥ 17 mW/cm². For exposure intensities higher than 20 mW/cm² finest vignettes, down to zero, can be easily reproduced.

⁵ 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.

You are welcome to contact us for further information.

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