



nyloflex[®] FTS Digital

Versatile flexo plate with inherent flat top dots
– more versatile than most plates in the packaging market.



- Photopolymer flexo plate with inherent flat top dots
- Easy creation of flat top dots with your standard solvent processing equipment
- Versatile use: for flexible packaging and tag & label markets, for printing on foil and high quality paper substrates, with solvent based, water based or UV inks
- Smooth plate surface with a very fine grain is able to hold customized surface screening patterns (e.g. Pixel+ and Nano)



Versatility – one plate for multiple segments

- Combine different types of jobs for different segments on to one plate
- Reduce the amount of plate types on stock
- Improve your efficiency and reduce plate waste



Less complexity – out of the box

- Good solid ink density and ink transfer, that can be further improved when customized with surface screening
- Slight dot sharpening that brings market leading high-lights in combination with a hybrid screening
- Excellent solid ink density on a wide range of anilox rollers



Improve productivity and consistency

- Good lifetime for long print runs
- Less dot gain tolerances – on press the flat top dots are less impression sensitive than standard digital dots resulting in improved production consistency
- Reduce cost, save time: No additional equipment, no time consuming LED exposure or any consumables required

nyloflex® FTS Digital

**Versatile flexo plate with inherent flat top dots
– more versatile than most plates in the packaging market.**



Technical characteristics	nyloflex® FTS 114 Digital ¹	nyloflex® FTS 170 Digital ¹
Color of raw plate	light blue	light blue
Total thickness (mm) (inch)	1.14 (0.045")	1.70 (0.067")
Hardness acc. to DIN 53505	60	60
Plate hardness (Shore A)	74	65
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)	150	150
Processing parameters²		
Back exposure (s)	10 – 20	30 – 50
Main exposure (min)	8 – 10	8 – 10
Washout speed (mm/min)	250 – 300	200 – 260
Drying time at 60 °C / 140 °F (h)	1.5 – 2.0	2
Post exposure UV-A (min)	10	10
Light finishing UV-C (min) ³	2	2
Laser intensity (J/cm ²)	Approx. 10% higher than for standard nyloflex® digital plates	

Processing information	
Suitable equipment	The nyloflex® FTS 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, 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.
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) Non-standard product 2) All processing parameters depend on, among other things, the processing equipment, lamp age and the type of washout solvent. An exposure intensity of minimum ≥ 18 mW/cm² and optimum of 20 - 24 mW/cm² is recommended. 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) 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.

Find out more about the flat top family. Please contact us for additional information.

Flint Group, Sieglestr. 25, 70469 Stuttgart, Germany • T +49 711 9816 389 • info.flexo@flintgrp.com • www.flintgrp.com

The aim of our technical documents is to inform and advise our customers. The information provided herein is correct to the best of Flint Group's knowledge. No liability for any errors, facts or opinions is accepted. Customers must satisfy themselves as to the suitability of this product for their application. No responsibility for any loss as a result of any person placing reliance on any material contained herein will be accepted. Product names followed by ® are trademarks registered by Flint Group (represented by Flint Group US LLC or Flint Group Germany GmbH). Rely on usSM is a service mark of Flint Group.