



## nyloflex<sup>®</sup> FTC Digital

The solution for a significant fluting reduction in corrugated post-print



- Inherently flat top flexo plate to cope with all challenges in corrugated postprint
- Significant fluting reduction on various corrugated boards, from fine to rough flute
- Suitable for all water based printing inks



### Convincing print results

- Excellent ink transfer allows for smooth solids, with even ink laydown, thus improved and consistent print results
- Superior print resolution – precise reproduction of fine details, sharp and defined elements, text and codes
- Reduced bump-up and consistent dot gain over the whole print run



### Simplify prepress and plate making

- Reduce cost, save time: No additional equipment, processing steps or consumables needed
- Improved reproducibility and consistency due to less error sources during plate making



### Improve productivity and consistency

- Less dot gain tolerances – on press the flat top dots are less impression sensitive than standard digital dots
- Quick ready-to-press thus reduced start-up times and waste
- Higher productivity due to superior stability at increased press speeds

## nyloflex® FTC Digital

**Inherently flat top dot flexo plate leads to significant fluting reduction in corrugated post-print**



Technical characteristics	nyloflex® FTC Digital				
	284	318	394	470	635
Base Material	Polyester film				
Color of raw plate	Red (with black LAMS layer)				
Total thickness (mm) (inch) <sup>1</sup>	2.84 (0.112)	3.18 (0.125)	3.94 (0.155)	4.70 (0.185)	6.35 (0.250)
Hardness acc. to DIN 53505	32	32	32	32	32
Plate hardness (Shore A)	40	38	36	34	32
Recommended relief depth (mm)	0.9 - 1.2	0.9 - 1.5	1.0 - 1.5	1.2 - 2.2	2.2 - 3.0
Tonal range (%)	2 - 98	2 - 98	3 - 98	3 - 98	3 - 98
at screen ruling (l/cm)	48	48	40	40	32
Fine line width (down to µm)	100	100	300	300	300
Isolated dot diameter (down to µm)	200	200	750	750	750

Processing parameters <sup>2</sup>					
Back exposure (s)	20 - 60	20 - 60	50 - 100	50 - 100	50 - 100
Main exposure (min)	10 - 15	10 - 15	10 - 15	10 - 15	10 - 15
Washout speed (mm/min)	130 - 150	100 - 130	100 - 130	80 - 120	60 - 90
Drying time at 60°C / 140°F (h)	2.5 - 3.0	2.5 - 3.0	2.5 - 3.0	3.0 - 3.5	3.0 - 4.0
Post exposure UV-A (min)	10	10	10	10	10
Light finishing UV-C (min) <sup>3</sup>	1-4	1-4	1-4	1-4	1-4
Laser intensity (J/cm <sup>2</sup> )	Approx. 15 - 20% higher than for standard nyloflex® digital plates				

Processing information	
Suitable equipment	The nyloflex® FTC 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® FTC Digital is suitable for all water based printing inks
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  $\geq 17$  mW/cm<sup>2</sup> is recommended. For exposure intensities higher than 20 mW/cm<sup>2</sup> finest vignettes, down to zero, can be easily reproduced. 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 us<sup>SM</sup> is a service mark of Flint Group.