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The Easy Way

nyloflex[®] FTC Digital

The Easy Way to Flat Top Dots and Fluting Reduction

Enhanced print quality in corrugated postprint

- Inherently flat top flexo plate designed to cope with all challenges in corrugated postprint
- Significant fluting reduction on various corrugated boards, from fine to rough flute, hence enhanced print quality
- Able to hold finest highlights
- Superior print resolution – precise reproduction of fine details, sharp and defined elements, text and codes
- Excellent ink transfer allows for smooth solids, with even ink laydown, thus improved and consistent print results

Easy and efficient

- Easy creation of flat top dots – no additional equipment, processing steps or consumables required
- Reduced complexity and efficiency gain in plate making
- Improved reproducibility and consistency due to less error sources during plate making
- Higher wear resistance and high print run stability allows for greater consistency
- Increased efficiency through quick press set-up, thus reduced start-up times and waste
- Higher productivity due to superior stability at increased press speeds
- Extremely durable and robust material provides the well-known high resistance to ozone and good storage capabilities of the nyloflex[®] printing plates

Advantages related to the Flat Top Dot geometry by using the standard digital workflow:

- Significant fluting reduction
- Less dot gain tolerances – on press the flat top dots are less impression sensitive than standard digital dots – improvement of production consistency
- Allows for a reduced bump-up and consistent dot gain over the whole print run

FlintGroup
Flexographic Products

nyloflex® FTC Digital				
284	318	394	470	635

Technical characteristics					
Base material	Polyester film				
Colour of raw plate	Red (with black LAMS layer)				
Total thickness ¹ (mm) (inch)	2.84 (0.112)	3.18 (0.125)	3.94 (0.155)	4.70 (0.185)	6.35 (0.250)
Hardness acc. to DIN53505 (Shore A)	32	32	32	32	32
Hardness processed plate (Shore A)	40	38	36	34	32
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 ²					
Back exposure @ 19 mW/cm ² (s)	20-60	20-60	50-100	60-120	80-200
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)	1-4	1-4	1-4	1-4	1-4
Laser intensity (J/cm ²)	Approx. 15 - 20% higher than for standard nyloflex® digital plates				

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 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 others, 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. The values for the main exposure of digital plates were determined at an exposure intensity of >15mW/cm². Under other conditions the processing times can differ from these; therefore, the above mentioned values are only to be used as a guide.

You are welcome to contact us for further information.

Flint Group Flexographic Products
Sieglestrasse 25
70469 Stuttgart
Germany

T +49 711 9816-541
F +49 711 9816-801
info.flexo@flintgrp.com
www.flintgrp.com

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