FlatTopDot

nyloflex® FTC Digital

For the highest print quality on standard to high quality corrugated substrates

Convincing print results

- 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

Be
Brilliant.

XSYS
Print solid. Stay flexible.

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Technical characteristics	**284**	**318**	**394**	**470**	**635**
Base Material	Polyester film				
Color of raw plate	Red (with black LAMS layer)				
Total thickness (mm) (inch)[1]	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[2]					
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)[3]	1-4	1-4	1-4	1-4	1-4
Laser intensity (J/cm²)	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.
Certification	XSYS printing plates are produced at Willstätt production site, which is certified according to international standards for quality management (DIN EN ISO 9001:2015), environmental management (DIN EN ISO14001:2015) and energy management (DIN EN ISO 50001:2018).

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 ≥ 17 mW/cm² is recommended. For exposure intensities higher than 20 mW/cm2 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.

Please contact us for additional information.

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GOLD 2023 ecovadis Sustainability Rating

XSYS

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