



nyloflex® FTL Digital

The perfect choice for fluting reduction in corrugated post print on test liners with recycled fibers



- + Inherently flat top dot flexo plate to cope with all challenges in corrugated post-print
- + Suitable for all water based printing inks
- + Very good washboard reduction on various substrates e.g. uncoated liners or kraft liners in combination with a C and B flutes



Consistent print results

- + Stable printing of screened designs even when different impression settings are applied
- + Excellent ink transfer, with even ink laydown, thus improved and consistent print results, particularly in solid areas



Simple pre-press and plate making

- + Reduced press setup time, resulting in less start up waste of inks and substrate by up to 40%
- + Mylar and plate material cost savings up to 50% on a single colour separation
- + Saving cost due to combination of halftone images and solids on one plate instead of two plates
- + Inherent flat top dot technology with UV-A tube exposure reducing complexity and steps in the plate making process



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

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Print solid. Stay flexible.

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Technical characteristics	nyloflex® FTL Digital					
	284	318	394	635	432	470
Base Material	Polyester film					
Color of raw plate	Red (with black LAMS layer)					
Total thickness (mm) (inch)	2.84 (0.112)	3.18 (0.125)	3.94 (0.155)	6.35 (0.250)	4.32 (0.170)	4.70 (0.185)
Hardness acc. to DIN 53505	28	28	28	28	32	32
Plate hardness (Shore A)	35	34	31	29	29	32
Recommended relief depth (mm)	0.9 - 1.2	0.9 - 1.2	1.0 - 1.5	2.0 - 3.0	1.2 - 1.7	1.2 - 1.7
Tonal range (%)	3 - 95	3 - 95	3 - 95	3 - 95	0	
at screen ruling (l/cm)	32	32	32	24	0	42
Fine line width (down to µm)	100	300	300	300	0	40
Isolated dot diameter (down to µm)	260	300	400	750	0	250

Processing parameters ²						
Back exposure (s)	40 - 60	40 - 60	50 - 100	130 - 180	0	116 - 242
Main exposure (min)	10 - 14	10 - 14	10 - 14	10 - 14	0	12
Washout speed (mm/min)	120 - 140	110 - 130	70 - 100	60 - 70	0	105 - 130
Drying time at 60°C / 140°F (h)	2.5 - 3.0	2.5 - 3.0	3.0	4.0	0	3.0
Post exposure UV-A (min)	10	10	10	10	0	12
Light finishing UV-C (min) ³	2	2	2	2	0	2
Laser intensity (J/cm ²)	Approx. 15 - 20% higher than for standard nyloflex® digital plates					

Processing information	
Suitable equipment	The nyloflex® FTL 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® FTL 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 $\geq 17 \text{ mW/cm}^2$ is recommended. For exposure intensities higher than 20 mW/cm^2 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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