



nyloflex[®] FAC nyloflex[®] FAC Digital

Just brilliant – high-performance in corrugated (postprint)

Product features

- copes with all requirements – starting from print on rough and uneven substrates to pressure-sensitive and soft paper substrates
- outstanding with challenging and multi-colour designs
- very good ink transfer with excellent area coverage and high solid density
- perfect adaption to corrugated board structure that reduces the washboard effect
- easy and safe processing due to a wide exposure latitude and colour change
- very good intermediate depths
- less plate cleaning due to special surface properties
- extremely robust and durable material
 - high print run stability
 - less mechanical wear
 - low swelling characteristic
 - high resistance to ozone
 - excellent storage capability

Advantages of nyloflex[®] Digital

- higher printing quality with sharper images, more open intermediate depths, finer highlight dots and less dot gain, i.e. larger range of tonal values and therefore improved contrast
- increased productivity, reduced failure rate and data transfer without loss of quality due to digital workflow
- consistency in quality when repeating plate processing
- cost-effective and more environmentally-friendly in processing as no film is required

nyloflex® FAC | nyloflex® FAC Digital

	nyloflex® FAC nyloflex FAC® Digital								
	284	318	394	432	470	500	550	600 ¹	635
Technical characteristics									
Base material	polyester foil								
Colour of raw plate	dark blue-violet (nyloflex® FAC Digital with black LAMS layer)								
Total thickness* (mm)	2.84	3.18	3.94	4.32	4.70	5.00	5.50	6.00 ¹	6.35
(inch)	0.112	0.125	0.155	0.170	0.185	0.197	0.217	0.236 ¹	0.250
Hardness acc. to DIN 53505 (Shore A)	32	32	32	32	32	32	32	32	32
Plate hardness (Shore A)	39	37	35	33	32	31	31	31	30
Relief depth (mm)	0.9 – 1.2	0.9 – 1.5	1.0 – 1.5	1.2 – 2.0	1.2 – 2.2	1.8 – 2.8	2.0 – 3.0	2.2 – 3.0	2.2 – 3.0
Tonal range (%)	2 – 95	2 – 95	3 – 95	3 – 95	3 – 95	3 – 95	3 – 95	3 – 95	3 – 95
at screen ruling (l/cm)	48	48	40	40	40	32	32	32	32
Fine line width (down to µm)	100	100	300	300	300	300	300	300	300
Isolated dot diameter (down to µm)	200	200	750	750	750	750	750	750	750

Processing parameters**										
Back exposure (s)	nyloflex® FAC	50 – 150	50 – 200	50 – 200	50 – 200	80 – 200	80 – 200	80 – 200	80 – 300	80 – 300
	nyloflex® FAC Digital	50 – 150	50 – 150	50 – 200	50 – 200	80 – 200	80 – 200	80 – 200	n.a.	80 – 300
Main exposure (min)	nyloflex® FAC	7 – 16	7 – 16	7 – 16	8 – 20	8 – 20	8 – 20	8 – 20	8 – 20	8 – 20
	nyloflex® FAC Digital	8 – 12	10 – 14	10 – 14	10 – 14	10 – 14	10 – 14	10 – 14	n.a.	10 – 14
Washout speed (mm/min)		130 – 150	110 – 130	80 – 110	60 – 100	60 – 90	50 – 90	50 – 90	50 – 90	50 – 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 – 3.5	3.0 – 3.5	3.0 – 3.5	3.5 – 4.0	3.5 – 4.0
Post exposure UV-A (min)		10	10	10	10	10	10	10	10	10
Light finishing UV-C (min)		10 – 15	10 – 15	10 – 15	10 – 15	10 – 15	10 – 15	10 – 15	10 – 15	10 – 15

¹ Only available as conventional plate.

* Standard thicknesses currently available – subject to change.

** All processing parameters depend on amongst 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.

Suitable equipment

The nyloflex® FAC can be processed with nyloflex® processing equipment and all similar devices. The nyloflex® FAC Digital can be used with all laser systems suitable for imaging flexo printing plates.

Printing inks

The nyloflex® FAC is suited for all water-based and alcohol-based printing inks. (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 individual platemaking 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 in accordance to the requirements and standards of DIN ISO 9001. This process guarantees our customers maximum quality consistence.

All information in this document is based on our present knowledge and experience at the time of printing. Due to the multitude of factors influencing the processing and application of our products, it does not exempt the user from testing and calibrating. Nor does it imply any legally binding assurance concerning specific properties of the products or the suitability for a particular application. The responsibility of observing any possible industrial property rights, laws and regulations is the obligation of the user. Subject to technical changes without prior notice. Product names marked ® are registered trademarks of Flint Group.

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Toll-free: 866.282.7697
Toll-free Fax: 800.223.6869
www.AndersonVreeland.com
info@AndVre.com