Be brilliant.

nyloflex® FAC

The ideal plate for fine print quality on standard to high quality corrugated packaging

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 plates

- Superior printing quality with sharper images, more open intermediate depths, finer highlight dots and less dot gain, i.e. larger range of tonal values therefore improved contrast
- Increased productivity 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

XSYS
Print solid. Stay flexible.

nyloflex® FAC

	nyloflex® FAC | nyloflex FAC® Digital								
	284	318	394	432	470	500	550	600[1]	635
Technical characteristics									
Base material	polyester film								
Colour of raw plate	dark blue-violet (nyloflex® FAC Digital with black LAMS layer)								
Total thickness[1] (mm) (inch)	2.84 0.112	3.18 0.125	3.94 0.155	4.32 0.170	4.70 0.185	5.00 0.197	5.50 0.217	6.00[1] 0.236[1]	6.35 0.250
Hardness acc. to DIN 53505 (Shore A)	32	32	32	32	32	32	32	32	32
Plate hardness (Shore A)	39	37	33	33	32	31	31	31	30
Relief depth (mm)	0.9–1.2	0.9–1.5	1.0–1.5	1.2-1.7	1.2–2.2	1.8–2.8	2.0–3.0	2.2–3.0	2.2–3.0
Tonal range (%) at screen ruling (l/cm)	2–95 48	3–95 48	3–95 40	3–95 40	3–95 40	3–95 32	3–95 32	3–95 32	3–95 32
Fine line width (down to µm)	100	300	300	300	300	300	300	300	300
Isolated dot diameter (down to µm)	200	750	750	750	750	750	750	750	750
Processing parameters[2]									
Back exposure (s)	50–150	50–200	50–200	50–200	80–200	80–200	80–200	80–300	80–300
Main exposure (min)	7–16	7–16	7–16	10-14	8–20	8–20	8–20	8–20	8–20
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)	3.0	3.0	3.0	3.0-3.5	3.5	4.0	4.0	4.0	4.0
Post exposure UV-A (min)	10	10	10	10	10	10	10	10	10
Light finishing UV-C (min)	8–12	8–12	8–12	8–12	8–12	8–12	8–12	8–12	8–12

Processing Information

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	Suitable for all water based and solvent 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 according to DIN ISO 9001, DIN ISO 14001 and DIN ISO 5001 standards and requirements. This process guarantees our customers consistent high quality products and services.

1) Only available as conventional plate. 2) Standard thicknesses currently available – subject to change. 3) 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.

Please contact us for additional information.

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GOLD 2023 ecovadis Sustainability Rating

XSYS Print solid. Stay flexible.

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