Be brilliant.

nyloflex® ACT

Ideal for simple designs on rougher substrates combining solids and screens

Product features

- Medium hard plate, optimised for the printing of designs that combine halftones and solids in one plate
- Ideal for all absorbent and non-absorbent commonly used substrates (i.e. plastic and aluminium foil, coated and uncoated boards, preprint liner)
- High solid density and minimum dot gain in the halftone
- Wide exposure latitude and good relief depths
- Suitable for the use with water and solvent based inks
- Conditionally suitable for UV inks

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® ACT

	nyloflex® ACT				nyloflex® ACT Digital			
	114	170	254	284	114	170	254	284
Technical characteristics								
Base material	polyester film				polyester film			
Colour of raw plate	light blue				light blue, with black LAMS layer			
Total thickness[1] (mm) (inch)	1.14 (0.045")	1.70 (0.067")	2.54 (0.100")	2.84 (0.112")	1.14 (0.045")	1.70 (0.067")	2.54 (0.100")	2.84 (0.112")
Hardness acc. to DIN 53505 (Shore A)	50	50	50	50	50	50	50	50
Plate hardness (Shore A)	74	62	54	52	74	62	54	52
Relief depth (mm)	0.6–0.7	0.7–0.9	0.9–1.2	0.9–1.2	0.5–0.7	0.7–0.9	0.9–1.2	0.9–1.2
Tonal range (%) at screen ruling (l/cm)	2–95 60	2–95 60	2–95 60	2–95 60	1–98 60	1–98 60	2–98 60	2–98 60
Fine line width (down to µm)	100	100	100	100	100	100	100	100
Isolated dot diameter (down to µm)	200	200	200	200	200	200	200	200
Processing parameters[3]								
Back exposure (s)	25–50	25–50	25–50	25–50	25–50	25–50	25–50	25–50
Main exposure (min)	8–15	8–15	8–20	8–20	8–12	8–12	8–12	8–12
Washout speed (mm/min)	210–250	170–210	160–200	150–190	210–250	170–210	160–200	150–190
Drying time at 60°C / 140°F (h)	2.0	2.5	3.0	3.0	2.0	2.5	3.0	3.0
Post exposure UV-A (min)	10	10	10	10	10	10	10	10
Light finishing UV-C (min)	7–12	7–12	7–12	7–12	7–12	7–12	7–12	7–12

Processing equipment

Suitable equipment	The nyloflex® ACT can be processed with nyloflex® processing equipment and all similar devices. The nyloflex® ACT 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 and conditionally suitable for UV inks.[3] (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) 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. 3) Suitability with UV inks is dependant on the ink type and temperature – these factors could affect the performance of the plate and consistency of the print.

Please contact us for additional information.

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GOLD 2023 ecovadis Sustainability Rating

XSYS Print solid. Stay flexible.

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