



nyloflex[®] ACE nyloflex[®] ACE Digital

Fast and accurate – the ‘ace’ in high quality halftone printing
for long print runs

Excellent print results

- well established hard flexo plate, ideal for flexible and aseptic packaging printing
- excellent print results on film, foil and on coated paper substrates
- low dot gain and reproduction of finest vignettes
- excellent performance in halftone printing
- ideal for high quality High Definition Flexo
- suitable for water and alcohol based inks, conditionally suitable for UV inks*

* Standard thicknesses currently available – subject to change.

Efficient & cost effective

- short and accurate plate processing
- for high quantity print runs
- long plate run life
- reduced plate cleaning cycles

Advantages of nyloflex[®] Digital

- 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

nyloflex® ACE | nyloflex® ACE Digital

	nyloflex® ACE				nyloflex® ACE Digital			
	114	170	254	284	076	114	170	254
Technical characteristics								
Base material	polyester film				polyester film			
Colour of raw plate	green				green , with black LAMS layer			
Total thickness* (mm) (inch)	1.14 (0.045")	1.70 (0.067")	2.54 (0.100")	2.84 (0.112")	0.76 (0.030")	1.14 (0.045")	1.70 (0.067")	2.54 (0.100")
Hardness acc. to DIN 53505 (Shore A)	62	62	62	62	62	62	62	62
Plate hardness (Shore A)	78	70	66	64	86	78	70	66
Relief depth (mm)	0.6 – 0.7	0.7 – 0.9	0.9 – 1.2	0.9 – 1.2	0.6	0.6 – 0.7	0.7 – 0.9	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	1 – 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**								
Back exposure (s)	25 – 45	35 – 50	50 – 85	50 – 85	10 – 20	25 – 45	35 – 50	50 – 85
Main exposure (min)	8 – 20	8 – 20	8 – 20	8 – 20	8 – 12	8 – 12	8 – 12	8 – 12
Washout speed (mm/min)	200 – 250	180 – 220	160 – 180	160 – 180	200 – 250	180 – 220	160 – 180	160 – 180
Drying time at 60 °C / 140 °F (h)	1.5 – 2.0	1.5 – 2.0	2.0 – 3.0	2.0 – 3.0	1.0 – 1.5	1.5 – 2.0	1.5 – 2.0	2.0 – 3.0
Post exposure UV-A (min)	10	10	10	10	10	10	10	10
Light finishing UV-C (min)	7 – 15	7 – 15	7 – 15	7 – 15	7 – 15	7 – 15	7 – 15	7 – 15

* Standard thicknesses currently available – subject to change.

** 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.

Suitable equipment

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

Printing inks

Suitable for all water based and alcohol based printing inks and conditionally suitable for UV 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 a consistent high quality of the products and services.



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