



# nyloflex<sup>®</sup> ACE nyloflex<sup>®</sup> 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<sup>®</sup> 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
<b>Technical characteristics</b>								
<b>Base material</b>	polyester film				polyester film			
<b>Colour of raw plate</b>	green				green , with black LAMS layer			
<b>Total thickness* (mm)</b> (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")
<b>Hardness acc. to DIN 53505 (Shore A)</b>	62	62	62	62	62	62	62	62
<b>Plate hardness (Shore A)</b>	78	70	66	64	86	78	70	66
<b>Relief depth (mm)</b>	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
<b>Tonal range (%)</b> 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
<b>Fine line width (down to µm)</b>	100	100	100	100	100	100	100	100
<b>Isolated dot diameter (down to µm)</b>	200	200	200	200	200	200	200	200

<b>Processing parameters**</b>								
<b>Back exposure (s)</b>	25 – 45	35 – 50	50 – 85	50 – 85	10 – 20	25 – 45	35 – 50	50 – 85
<b>Main exposure (min)</b>	8 – 20	8 – 20	8 – 20	8 – 20	8 – 12	8 – 12	8 – 12	8 – 12
<b>Washout speed (mm/min)</b>	200 – 250	180 – 220	160 – 180	160 – 180	200 – 250	180 – 220	160 – 180	160 – 180
<b>Drying time at 60 °C / 140 °F (h)</b>	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
<b>Post exposure UV-A (min)</b>	10	10	10	10	10	10	10	10
<b>Light finishing UV-C (min)</b>	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.

**You are welcome to contact us for further information.**

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