

Rely on us.<sup>SM</sup>



# nyloflex<sup>®</sup> ACT

# nyloflex<sup>®</sup> ACT Digital

Excellent in printing of combination designs

## 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<sup>®</sup> 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

**FlintGroup**  
Flexographic Products

# nyloflex<sup>®</sup> ACT | nyloflex<sup>®</sup> ACT Digital

	nyloflex <sup>®</sup> ACT				nyloflex <sup>®</sup> ACT Digital			
	114	170	254	284	114	170	254	284
<b>Technical characteristics</b>								
<b>Base material</b>	polyester foil				polyester foil			
<b>Colour of raw plate</b>	light blue				light blue, 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")	1.14 (0.045")	1.70 (0.067")	2.54 (0.100")	2.84 (0.112")
<b>Hardness acc. to DIN 53505 (Shore A)</b>	50	50	50	50	50	50	50	50
<b>Plate hardness (Shore A)</b>	74	62	54	52	74	62	54	52
<b>Relief depth (mm)</b>	0.6 – 0.7	0.7 – 0.9	0.9 – 1.2	0.9 – 1.2	0.6 – 0.7	0.7 – 0.9	0.9 – 1.2	0.9 – 1.2
<b>Tonal range (%)</b> <b>at screen ruling (l/cm)</b>	2 – 95 60	2 – 95 60	2 – 95 60	2 – 95 60	1 – 98 60	1 – 98 60	2 – 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 – 50	25 – 50	25 – 50	25 – 50	25 – 50	25 – 50	25 – 50	25 – 50
<b>Main exposure (min)</b>	8 – 15	8 – 15	8 – 20	8 – 20	8 – 12	8 – 12	8 – 12	8 – 12
<b>Washout speed (mm/min)</b>	210 – 250	170 – 210	160 – 200	150 – 190	210 – 250	170 – 210	160 – 200	150 – 190
<b>Drying time at 60°C / 140°F (h)</b>	2.0 – 3.0	2.0 – 3.0	2.0 – 3.0	2.0 – 3.0	2.0 – 3.0	2.0 – 3.0	2.0 – 3.0	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 – 12	7 – 12	7 – 12	7 – 12	7 – 12	7 – 12	7 – 12	7 – 12

\* 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<sup>®</sup> processing equipment and using nylosolv<sup>®</sup> washout solvents. The values for the main exposure of digital plates were determined at an exposure intensity of > 15mW/cm<sup>2</sup>. 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<sup>®</sup> ACT can be processed with nyloflex<sup>®</sup> processing equipment and all similar devices. The nyloflex<sup>®</sup> ACT Digital can be used with all laser systems suitable for imaging flexo printing plates.

## Printing inks

The nyloflex<sup>®</sup> ACT is suited 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<sup>®</sup> washout solvents.  
nylosolv<sup>®</sup> 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<sup>®</sup> User Guide.

## High quality standard

nyloflex<sup>®</sup> printing plates are manufactured in accordance to the requirements and standards of DIN ISO 9001. This process guarantees our customers maximum quality consistence.



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

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