

nyloflex[®] ACE

nyloflex[®] ACE Digital

Sets the standard in high quality flexo printing

Superior print quality

- High durometer plate for highest quality in printing of flexible packaging, labels, beverage packaging and corrugated preprint
- Excellent print results on film, foil and coated paper substrates
- Sharp reproduction of finest elements, screens, text and fine line work
- Outstanding quality reproduction of smooth vignettes and high contrast images
- Very good ink transfer provides smooth solids
- Ideal for High Definition Flexo (HD Flexo)
- High solvent resistance – perfect with solvent based inks, suitable for water based and UV inks³

Highly efficient & cost effective in pressroom and print

- Superior cleaning behaviour and very low dust attraction
 - Clean running during printing
 - Easy and effective cleaning
 - Less press stops for cleaning
 - Reduced waste
- Easy handling, good mounting and demounting properties due to the even floor and clear contrast
- Short, accurate and consistent processing
- Extreme durability – long plate run life, ideal for long print runs
- Excellent storage properties and increased number of usages due to low surface tack

nyloflex[®] ACE Digital – Exceptional print results in combination with nyloflex[®] NExT Exposure Technology

- Perfect plate for digital Round Top Dots as well as Flat Top Dots (virtually 1:1 image transfer)
- Excellent reproduction through surface structuring for uniform ink lay down and high solid ink density
- Clearly defined and stable dot shapes – low dot gain tolerances and less impression sensitiveness

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	light green				light green , with black LAMS layer			
Total thickness¹ (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 parameters²								
Back exposure (s)	25 – 45	50 – 70	50 – 85	50 – 85	10 – 20	25 – 45	50 – 70	60 – 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)⁴	2 – 10	2 – 10	2 – 10	2 – 10	2 – 10	2 – 10	2 – 10	2 – 10

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.

⁴ Depending on the tubes lifetime.

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.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 and DIN ISO 14001 standards and requirements. This process guarantees our customers consistent high quality products and services.

You are welcome to contact us for further information.

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