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nyloflex[®] ACT

nyloflex[®] 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[®] 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® ACT | nyloflex® ACT Digital

	nyloflex® ACT				nyloflex® ACT Digital			
	114	170	254	284	114	170	254	284
Technical characteristics								
Base material	polyester foil				polyester foil			
Colour of raw plate	light blue				light blue, with black LAMS layer			
Total thickness* (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	0.6 – 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**								
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 – 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
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

* 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® 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® 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

The nyloflex® 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® 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 maximum quality consistence.

You are welcome to contact us for further information.

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