



nyloflex[®] FAB nyloflex[®] FAB Digital

The resistant plate especially for UV-inks

Product features

- for high quality printing of labels, folding cartons and flexible packaging
- high flexibility, therefore perfect for small diameter printing cylinder
- excellent exposure latitude even with small relief depths
- quick processing due to short exposure times
- colour change after main exposure for easy handling (from violet to green)
- very good ink transfer with excellent area coverage for brilliant solid densities
- wide tonal range for the reproduction of finest image elements, perfect for label printing
- highly resistant to UV-inks
- also suitable for water and alcohol based 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

nyloflex® FAB | nyloflex® FAB Digital

	nyloflex® FAB		nyloflex® FAB Digital	
	114	170	114	170
Technical characteristics				
Base material	polyester foil		polyester foil	
Colour of raw plate	violet		violet, with black LAMS layer	
Total thickness* (mm) (inch)	1.14 (0.045")	1.70 (0.067")	1.14 (0.045")	1.70 (0.067")
Hardness acc. to DIN 53505 (Shore A)	62	62	62	62
Plate hardness (Shore A)	78	70	78	70
Relief depth (mm)	0.6 – 0.7	0.7 – 0.9	0.6 – 0.7	0.7 – 0.9
Tonal range (%) at screen ruling of	2 – 95 60 l/cm (150 lpi)	2 – 95 60 l/cm (150 lpi)	1 – 98 60 l/cm (150 lpi)	1 – 98 60 l/cm (150 lpi)
Fine line width (down to µm)	100	100	100	100
Isolated dot diameter (down to µm)	200	200	200	200

Processing parameters**				
Back exposure (s)	15 – 25	55 – 65	15 – 25	55 – 65
Main exposure (min)	12 – 20	12 – 20	8 – 12	8 – 12
Washout speed (mm/min)	200 – 220	180 – 200	200 – 220	180 – 200
Drying time at 60° C / 140° F (h)	2.0	2.0	2.0	2.0
Post exposure UV-A (min)	10	10	10	10
Light finishing UV-C (min)	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® FAB can be processed with nyloflex® processing equipment and all similar devices. The nyloflex® FAB Digital can be used with all laser systems suitable for imaging flexo printing plates.

Printing inks

Suitable for all UV-inks as well as water-based and alcohol-based printing 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.



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