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nyloflex[®] FAH

Established flexo plate for use with UV inks

For high quality halftone printing with UV inks

- Especially developed for high resolution label printing
- Also suitable for flexible packaging and folding cartons
- Excellent resistance to UV inks¹
- Also suitable for solvent and water based inks
- High ozone resistance
- Reliable processing and easy handling due to colour change during exposure
- Brilliant image quality, wide tonal range for reproduction of fine image elements
- Ideal for printing of fine, homogeneous vignettes
- Optimum ink coverage in solid areas
- Reverse elements remain open

Advantages of nyloflex[®] 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

FlintGroup

	nyloflex® FAH				nyloflex® FAH Digital			
	114	170	254	284	114	170	254	284
Technical characteristics								
Base material	polyester film				polyester film			
Colour of raw plate	red				red, with black LAMS layer			
Total thickness² (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)	60	60	60	60	60	60	60	60
Plate hardness (Shore A)	77	69	65	63	77	69	65	63
Relief depth (mm)	0.6 – 0.7	0.7 – 0.9	0.9 – 1.2	0.9 – 1.2	0.5 – 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 parameters³								
Back exposure (s)	9 – 24	9 – 24	30 – 120	45 – 120	9 – 24	9 – 24	30 – 120	45 – 120
Main exposure (min)	8 – 15	8 – 15	8 – 24	8 – 24	8 – 12	8 – 12	8 – 24	8 – 12
Washout speed (mm/min)	160 – 180	160 – 180	140 – 180	130 – 170	160 – 180	160 – 180	140 – 180	130 – 170
Drying time at 60 °C / 140 °F (h)	2.0	2.0	2.5	3.0	2.0	2.0	2.5	3.0
Post exposure UV-A (min)	10	10	10	10	10	10	10	10
Light finishing UV-C (min)	8 – 12	8 – 12	8 – 12	8 – 12	8 – 12	8 – 12	8 – 12	8 – 12

¹ Performance with UV inks is dependant on the ink type and temperature – these factors could affect the plate performance and consistency of the print.

² Standard thicknesses currently available – subject to change.

³ 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® FAH can be processed with nyloflex® processing equipment and all similar devices. The nyloflex® FAH 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.¹ (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 storage can be found in the nyloflex® User Guide.

High quality standard

nyloflex® printing plates are manufactured according to DIN ISO 9001, DIN ISO 14001 and DIN ISO 5001 standards and requirements. This process guarantees our customers consistent high quality products and services.

Please contact us for additional information.