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nyloflex[®] FSC Digital

Soft plate for corrugated postprint, especially for transit packaging
– unique hardness in the solid plates segment

Low plate hardness & high print quality

- Perfect area coverage, particularly on low cost liners
- Very good ink transfer
- Good intermediate depths
- Excellent print results, particularly in solid areas
- Superior printing performance in line work
- Suitable for screen work

Standard solid plate processing – cost efficient & reliable

- Superior durability and long lasting lifetime
- Suitable for standard equipment – no additional investment necessary
- Established technology – no additional training required
- Easy handling – clean and fast processing
- Reduced plate cleaning cycles

Advantages of nyloflex[®] Digital plates

- Superior printing quality with sharper images, more open intermediate depths
- 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

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nyloflex® FSC Digital

	nyloflex® FSC Digital								
	284	318	394	432	470	500	550	600	635
Technical characteristics									
Base material	polyester film								
Colour of raw plate	orange, with black LAMS layer								
Total thickness¹ (mm)	2.84	3.18	3.94	4.32	4.70	5.00	5.50	6.00	6.35
(inch)	0.112	0.125	0.155	0.170	0.185	0.197	0.217	0.236	0.250
Hardness acc. to DIN 53505 (Shore A)	26	26	26	26	26	26	26	26	26
Plate hardness (Shore A)	35	33	28	27	27	27	26	26	26
Relief depth (mm)	0.9 – 1.2	0.9 – 1.2	1.0 – 1.5	1.2 – 1.7	1.2 – 1.7	1.8 – 2.8	2.0 – 3.0	2.0 – 3.0	2.0 – 3.0
Tonal range (%)	3 – 95	3 – 95	3 – 95	3 – 95	3 – 95	3 – 95	3 – 95	3 – 95	3 – 95
at screen ruling	32 l/cm (80 lpi)	32 l/cm (80 lpi)	32 l/cm (80 lpi)	24 l/cm (60 lpi)	24 l/cm (60 lpi)	24 l/cm (60 lpi)	24 l/cm (60 lpi)	24 l/cm (60 lpi)	24 l/cm (60 lpi)
Fine line width (down to µm)	100	300	300	300	300	300	300	300	300
Isolated dot diameter (down to µm)	200	750	750	750	750	750	750	750	750

Processing parameters²									
Back exposure (s)	50 – 70	50 – 100	50 – 100	50 – 100	70 – 100	90 – 150	120 – 160	250 – 300	250 – 300
Main exposure (min)	10 – 14	10 – 14	10 – 14	10 – 14	10 – 14	10 – 14	10 – 14	10 – 14	10 – 14
Washout speed (mm/min)	130 – 150	130 – 140	90 – 100	70 – 90	60 – 70	50 – 60	50 – 60	40 – 60	40 – 60
Drying time at 60 °C / 140 °F (h)	3.0	3.0	3.0	3.5	4.0	4.0	4.0	4.0	4.0
Post exposure UV-A (min)	10	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	8 – 12

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.

Suitable equipment

The nyloflex® FSC Digital can be processed with nyloflex® processing equipment and all similar devices. The nyloflex® FSC Digital can be used with all laser systems suitable for imaging flexo printing plates.

Printing inks

Suitable for all water based printing inks.

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, 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.

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