



nyloflex[®] Seal F nyloflex[®] Seal F Digital

Unique in Digital – the photopolymer foil based coating plate
for inline and offline print finishing

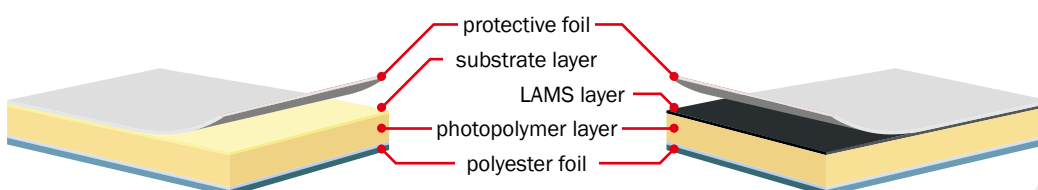
Product features

- especially developed for inline-finishing in sheetfed offset presses with flexo coating units and for the offline-finishing in coating presses
- for spot and full surface coating in commercial and packaging printing on coated papers and board
- high stability even with UV-coatings and UV-inks
- high-contrast colour change
- high dimensional stability due to thick polyester foil
- wide exposure latitude
- high resolution
- very good transfer of water based dispersion- and UV-varnishes
- high print contrast

Advantages of nyloflex[®] Seal F Digital

- higher printing quality with sharper images and more open intermediate depths
- increased productivity, reduced failure rate and data transfer without loss of quality due to a digital workflow
- consistency in quality at repeated plate processing
- cost-effective and more environmentally-friendly in processing as no film is required

Schematic of nyloflex[®] Seal F and nyloflex[®] Seal F Digital



nyloflex[®] Seal F plates are monolayer plates.
They consist of a light-sensitive photopolymer layer bonded to a polyester foil.

nyloflex® Seal F | nyloflex® Seal F Digital

	nyloflex® Seal F	nyloflex® Seal F Digital
	116	116
Technical characteristics		
Base material	polyester foil	polyester foil
Colour of raw plate	violet	violet, with black LAMS layer
Total thickness* (mm) (inch)	1.16 (0.046")	1.16 (0.046")
Hardness acc. to DIN 53505 (Shore A)	36	36
Plate hardness (Shore A)	72	72
Relief depth (mm)	0.9	0.9
Tonal range (%) at screen ruling of	3 – 90 48 l/cm (122 lpi)	2 – 95 48 l/cm (122 lpi)
Fine line width (down to µm)	300	300
Isolated dot diameter (down to µm)	750	750
Elongation constant (mm)	5.72	5.72

Processing parameters**		
Back exposure (s)	10 – 12	10 – 12
Main exposure (min)	10 – 15	8 – 12
Washout speed (mm/min)	100 – 130	100 – 130
Drying time at 60° C / 140° F (h)	2	2
Post exposure UV-A (min)	10	10
Light finishing UV-C (min)	10 – 15	10 – 15

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

Printing inks and varnishes

nyloflex® Seal F and nyloflex® Seal F Digital coating plates are suited for water based dispersion and UV varnishes.

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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