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nyloflex® Seal F

Photopolymer film based coating plate for inline and offline
print finishing



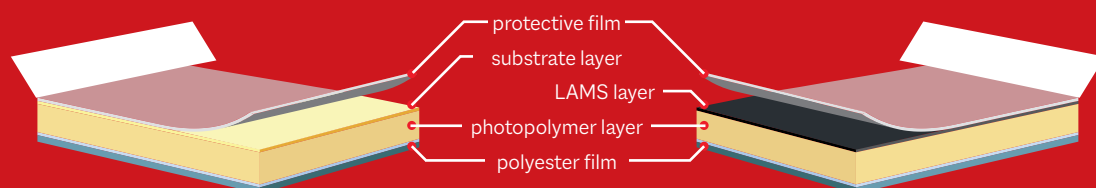
Product features

- + Especially developed for inline finishing in sheetfed offset presses with flexo coating units and for offline finishing in coating presses
- + For spot and full surface coating in commercial and packaging printing on coated papers and board
- + Excellent stability even with UV coatings and UV inks
- + High contrast colour change
- + Excellent dimensional stability due to thick polyester film
- + Wide exposure latitude
- + High resolution
- + Very good transfer of water based dispersion and UV varnishes
- + High print contrast

Advantages of nyloflex® Seal F Digital

- + 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

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 film.

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nyloflex® Seal F

	nyloflex® Seal F	nyloflex® Seal F Digital
	116	116
Technical characteristics		
Base material	polyester film	polyester film
Colour of raw plate	violet	violet, with black LAMS layer
Total thickness ¹ (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 parameters²

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)	6-10	6-10

Processing Information

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 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.

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.

Please contact us for additional information.

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