



# nyloflex<sup>®</sup> Seal F

# nyloflex<sup>®</sup> Seal F Digital

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

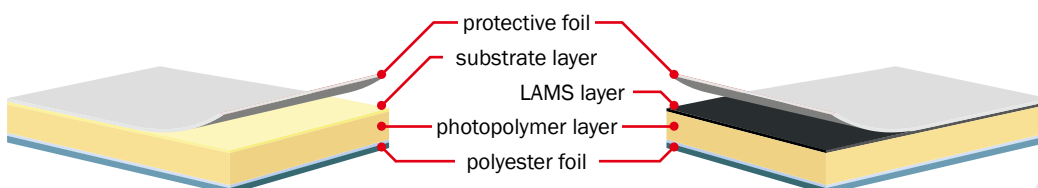
## Product features

- 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<sup>®</sup> 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<sup>®</sup> Seal F and nyloflex<sup>®</sup> Seal F Digital



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

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

You are welcome to contact us for further information.

**Flint Group Flexographic Products**  
Sieglestrasse 25  
70469 Stuttgart  
Germany

T +49 711 9816-301  
F +49 711 9816-801  
info.flexo@flintgrp.com  
www.flintgrp.com

All information in this document is based on our present knowledge and experience at the time of printing. Due to the multitude of factors influencing the processing and application of our products, it does not exempt the user from testing and calibrating. Nor does it imply any legally binding assurance concerning specific properties of the products or the suitability for a particular application. The responsibility of observing any possible industrial property rights, laws and regulations is the obligation of the user. Subject to technical changes without prior notice. Product names marked ® are registered trademarks of Flint Group.