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# nyloflex® FAH
# nyloflex® FAH Digital

**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 inks[1]
- 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

Flint Group
Flexographic Products

# nyloflex® FAH | nyloflex® FAH Digital

| | 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 thickness[2] (mm)<br>(inch) | 1.14<br>(0.045“) | 1.70<br>(0.067“) | 2.54<br>(0.100“) | 2.84<br>(0.112“) | 1.14<br>(0.045“) | 1.70<br>(0.067“) | 2.54<br>(0.100“) | 2.84<br>(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 | 0.6 – 0.7 | 0.7 – 0.9 | 0.9 – 1.2 | 0.9 – 1.2 |
| Tonal range (%)<br>at screen ruling (l/cm) | 2 – 95<br>60 | 2 – 95<br>60 | 2 – 95<br>60 | 2 – 95<br>60 | 1 – 98<br>60 | 1 – 98<br>60 | 2 – 98<br>60 | 2 – 98<br>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 parameters[3] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Back exposure (s) | 9 – 24 | 9 – 24 | 45 – 120 | 45 – 120 | 9 – 24 | 9 – 24 | 45 – 120 | 45 – 120 |
| Main exposure (min) | 8 – 15 | 8 – 15 | 8 – 24 | 8 – 24 | 8 – 12 | 8 – 12 | 8 – 12 | 8 – 12 |
| Washout speed (mm/min) | 160 – 180 | 160 – 180 | 130 – 170 | 130 – 170 | 160 – 180 | 160 – 180 | 130 – 170 | 130 – 170 |
| Drying time at 60 °C / 140 °F (h) | 2.0 | 2.0 | 2.5 – 3.0 | 2.5 – 3.0 | 2.0 | 2.0 | 2.5 – 3.0 | 2.5 – 3.0 |
| Post exposure UV-A (min) | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Light finishing UV-C (min) | 10 – 15 | 10 – 15 | 10 – 15 | 10 – 15 | 10 – 15 | 10 – 15 | 10 – 15 | 10 – 15 |

[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.
(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 and DIN ISO 14001 standards and requirements. This process guarantees our customers consistent high quality products and services.

**You are welcome to contact us for further information.**

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

T +49 711 9816-541
F +49 711 9816-801
info.flexo@flintgrp.com
www.flintgrp.com



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