



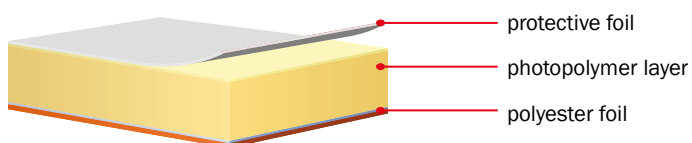
nyloflex[®] FCC

The durable standard in postprint

Product features

- especially for printing on coarse corrugated fluted board, with uncoated and half-coated papers
- ideal for retail packages with simple designs
- optimised for use in inline corrugated print production
- very good ink transfer with excellent area coverage and high solid density
- perfect adaptation to corrugated board surfaces reduces washboard effect
- less plate cleaning due to special surface properties
- extremely robust and durable material thus
 - high print run stability
 - excellent storage capability
 - low swelling characteristic
 - high resistance to ozone

Schematic of nyloflex[®] FCC



The nyloflex[®] FCC is a monolayer plate. It consists of a light-sensitive photopolymer layer bonded to a polyester foil.

| | nyloflex® FCC | | | | | |
|---|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | 394 | 470 | 500 | 550 | 600 | 635 |
| Technical characteristics | | | | | | |
| Base material | polyester foil | | | | | |
| Colour of raw plate | orange | | | | | |
| Total thickness* (mm) | 3.94 | 4.70 | 5.00 | 5.50 | 6.00 | 6.35 |
| (inch) | 0.155 | 0.185 | 0.197 | 0.217 | 0.236 | 0.250 |
| Hardness acc. to DIN 53505 (Shore A) | 30 | 30 | 30 | 30 | 30 | 30 |
| Plate hardness (Shore A) | 33 | 32 | 31 | 30 | 30 | 30 |
| Relief depth (mm) | 1.0 – 1.5 | 1.2 – 2.2 | 1.8 – 2.8 | 2.0 – 3.0 | 2.2 – 3.0 | 2.2 – 3.0 |
| Tonal range (%) | 3 – 95 | 3 – 95 | 3 – 95 | 3 – 95 | 3 – 95 | 3 – 95 |
| at screen ruling | 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) |
| Fine line width (down to µm) | 300 | 300 | 300 | 300 | 300 | 300 |
| Isolated dot diameter (down to µm) | 750 | 750 | 750 | 750 | 750 | 1000 |

| Processing parameters** | | | | | | |
|--|----------|---------|---------|----------|-----------|-----------|
| Back exposure (s) | 50 – 70 | 30 – 50 | 50 – 70 | 80 – 120 | 100 – 140 | 250 – 300 |
| Main exposure (min) | 8 – 18 | 8 – 18 | 8 – 18 | 8 – 18 | 8 – 18 | 8 – 18 |
| Washout speed (mm/min) | 90 – 100 | 60 – 70 | 60 – 70 | 60 – 70 | 60 – 70 | 60 – 70 |
| Drying time at 60 °C / 140 °F (h) | 3.0 | 3.5 | 4.0 | 4.0 | 4.0 | 4.0 |
| Post exposure UV-A (min) | 10 | 10 | 10 | 10 | 10 | 10 |
| Light finishing UV-C (min) | 10 – 15 | 10 – 15 | 10 – 15 | 10 – 15 | 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. 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® FCC can be processed with nyloflex® processing equipment and all similar devices.

Printing inks

The nyloflex® FCC is suited for all 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 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.

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