FlatTopDot


# nyloflex® FTC Digital

## For the highest print quality on standard to high quality corrugated substrates

- Inherently flat top flexo plate to cope with all challenges in corrugated postprint
- Significant fluting reduction on various corrugated boards, from fine to rough flute
- Suitable for all water based printing inks

### Convincing print results

- Excellent ink transfer allows for smooth solids, with even ink laydown, thus improved and consistent print results
- Superior print resolution – precise reproduction of fine details, sharp and defined elements, text and codes
- Reduced bump-up and consistent dot gain over the whole print run

### Simplify prepress and plate making

- Reduce cost, save time: No additional equipment, processing steps or consumables needed
- Improved reproducibility and consistency due to less error sources during plate making

### Improve productivity and consistency

- Less dot gain tolerances – on press the flat top dots are less impression sensitive than standard digital dots
- Quick ready-to-press thus reduced start-up times and waste
- Higher productivity due to superior stability at increased press speeds

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Print solid. Stay flexible.

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| | nyloflex® FTC Digital | | | | |
|---|---|---|---|---|---|
| **Technical characteristics** | **284** | **318** | **394** | **470** | **635** |
| Base Material | Polyester film | | | | |
| Color of raw plate | Red (with black LAMS layer) | | | | |
| Total thickness (mm) (inch)[1] | 2.84 (0.112) | 3.18 (0.125) | 3.94 (0.155) | 4.70 (0.185) | 6.35 (0.250) |
| Hardness acc. to DIN 53505 | 32 | 32 | 32 | 32 | 32 |
| Plate hardness (Shore A) | 40 | 38 | 36 | 34 | 32 |
| Recommended relief depth (mm) | 0.9 - 1.2 | 0.9 - 1.5 | 1.0 - 1.5 | 1.2 - 2.2 | 2.2 - 3.0 |
| Tonal range (%) | 2 - 98 | 2 – 98 | 3 – 98 | 3 – 98 | 3 – 98 |
| at screen ruling (l/cm) | 48 | 48 | 40 | 40 | 32 |
| Fine line width (down to µm) | 100 | 100 | 300 | 300 | 300 |
| Isolated dot diameter (down to µm) | 200 | 200 | 750 | 750 | 750 |
| **Processing parameters[2]** | | | | | |
| Back exposure (s) | 20 - 60 | 20 - 60 | 50 - 100 | 50 - 100 | 50 - 100 |
| Main exposure (min) | 10 - 15 | 10 - 15 | 10 - 15 | 10 - 15 | 10 - 15 |
| Washout speed (mm/min) | 130 - 150 | 100 - 130 | 100 - 130 | 80 - 120 | 60 - 90 |
| Drying time at 60°C / 140°F (h) | 2.5 - 3.0 | 2.5 - 3.0 | 2.5 - 3.0 | 3.0 - 3.5 | 3.0 - 4.0 |
| Post exposure UV-A (min) | 10 | 10 | 10 | 10 | 10 |
| Light finishing UV-C (min)[3] | 1-4 | 1-4 | 1-4 | 1-4 | 1-4 |
| Laser intensity (J/cm²) | Approx. 15 - 20% higher than for standard nyloflex® digital plates | | | | |

| **Processing information** | |
|---|---|
| Suitable equipment | The nyloflex® FTC Digital can be processed with nyloflex® processing equipment and all similar devices and can be used with all laser systems suitable for imaging flexo printing plates. |
| Printing inks | The nyloflex® FTC Digital is suitable for all water based printing inks |
| Washout solvents | Especially good results are achieved with nylosolv® washout solvents. nylosolv® can be distilled and reused. |
| Processing information | A detailed description of the imaging, exposure and finishing steps, as well as detailed information about handling 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 50001 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 other things, the processing equipment, lamp age and the type of washout solvent. A minimum exposure intensity of ≥ 17 mW/cm² is recommended. For exposure intensities higher than 20 mW/cm2 finest vignettes, down to zero, can be easily reproduced. 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. 3) Depending on longevity of the tubes.

**Please contact us for additional information.**

info@xsysglobal.com • www.xsysglobal.com



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