



nyloflex[®] FTL Digital

The choice for washboard reduction in corrugated post-print



- Inherently flat top dot flexo plate to cope with all challenges in corrugated post-print
- Suitable for all water based printing inks
- Very good washboard reduction on various substrates e.g. uncoated liners or kraft liners in combination with a C and B flutes



Consistent print results

- Stable printing of screened designs even when different impression settings are applied
- Excellent ink transfer, with even ink laydown, thus improved and consistent print results, particularly in solid areas



Simple pre-press and plate making

- Reduced press setup time, resulting in less start up waste of inks and substrate by up to 40%
- Mylar and plate material cost savings up to 50% on a single colour separation
- Saving cost due to combination of halftone images and solids on one plate instead of two plates
- Inherent flat top dot technology with UV-A tube exposure reducing complexity and steps in the plate making process



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

nyloflex® FTL Digital

Inherently flat top dot flexo plate leads to highest print quality with lowest washboarding effect



| Technical characteristics | nyloflex® FTL Digital | | | |
|--|-----------------------------|--------------|--------------|--------------|
| | 284 | 318 | 394 | 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) | 6.35 (0.250) |
| Hardness acc. to DIN 53505 | 28 | 28 | 28 | 28 |
| Plate hardness (Shore A) | 35 | 34 | 31 | 29 |
| Recommended relief depth (mm) | 0.9 - 1.2 | 0.9 - 1.2 | 1.0 - 1.5 | 2.0 - 3.0 |
| Tonal range (%) | 3 - 95 | 3 - 95 | 3 - 95 | 3 - 95 |
| at screen ruling (l/cm) | 32 | 32 | 32 | 24 |
| Fine line width (down to µm) | 100 | 300 | 300 | 300 |
| Isolated dot diameter (down to µm) | 260 | 300 | 400 | 750 |

| Processing parameters ² | | | | |
|---|--|-----------|----------|-----------|
| Back exposure (s) | 40 - 60 | 40 - 60 | 50 - 100 | 130 - 180 |
| Main exposure (min) | 10 - 14 | 10 - 14 | 10 - 14 | 10 - 14 |
| Washout speed (mm/min) | 120 - 140 | 110 - 130 | 70 - 100 | 60 - 70 |
| Drying time at 60 °C / 140 °F (h) | 2.5 - 3.0 | 2.5 - 3.0 | 3.0 | 4.0 |
| Post exposure UV-A (min) | 10 | 10 | 10 | 10 |
| Light finishing UV-C (min) ³ | 4 | 4 | 4 | 4 |
| Laser intensity (J/cm ²) | Approx. 15 - 20% higher than for standard nyloflex® digital plates | | | |

| Processing information | |
|------------------------|--|
| Suitable equipment | The nyloflex® FTL 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® FTL 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. 4) Suitability with UV inks is dependant on the ink type and temperature – these factors could affect the performance of the plate and consistency of the print.

Find out more about the flat top family. Please contact us for additional information.

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