nyloflex® ART
nyloflex® ART Digital
The perfect printing plate for printing on fibre based packaging material

Product features
• ideal to print on all kind of fibre surfaces
  ◦ preprint on kraft, test and uncoated liners
  ◦ high quality postprint on corrugated board
  ◦ folding cartons
• suitable for printing on folding corrugated board, especially on fine flute
• high solid density and defined line work on all paper substrates
• wide exposure latitude and open intermediate depths offer process stability and repeatability
• very good reproduction of highlight dots
• excellent and consistent ink transfer especially with water based inks
• suitable for water based and alcohol based inks, conditionally suitable for UV inks

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
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1 Standard thicknesses currently available – subject to change.
2 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.
3 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.

### nyloflex® ART

<table>
<thead>
<tr>
<th>Base material</th>
<th>Colour of raw plate</th>
<th>Total thickness (mm)</th>
<th>Hardness acc. to DIN 53505 (Shore A)</th>
<th>Plate hardness (Shore A)</th>
<th>Relief depth (mm)</th>
<th>Tonal range (%)</th>
<th>at screen ruling (l/cm)</th>
<th>Fine line width (down to μm)</th>
<th>Isolated dot diameter (down to μm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>nyloflex® ART</td>
<td>polyester film</td>
<td>red</td>
<td>1.70 (0.067&quot;)</td>
<td>40</td>
<td>60</td>
<td>0.7 – 0.9</td>
<td>2 – 95</td>
<td>60</td>
<td>100</td>
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<tr>
<td>nyloflex® ART Digital</td>
<td>polyester film, red, with black LAMS layer</td>
<td>orange</td>
<td>1.14 (0.045&quot;)</td>
<td>40</td>
<td>60</td>
<td>0.7 – 0.9</td>
<td>1 – 98</td>
<td>60</td>
<td>100</td>
</tr>
</tbody>
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### Processing parameters

| Back exposure (s) | 20 – 40 | 15 – 30 | 20 – 40 | 40 – 60 | 80 – 120 | 100 – 150 |
| Main exposure (min) | 8 – 20 | 8 – 12 | 8 – 12 | 8 – 12 | 8 – 12 | 10 – 14 |
| Washout speed (mm/min) | 130 – 190 | 130 – 190 | 130 – 190 | 110 – 170 | 110 – 170 | 90 – 130 |
| Drying time at 60°C / 140°F (h) | 2.5 | 2.0 | 2.5 | 3.0 | 3.0 | 3.0 |
| Post exposure UV-A (min) | 10 | 10 | 10 | 10 | 10 | 10 |
| Light finishing UV-C (min) | 7 – 12 | 7 – 12 | 7 – 12 | 7 – 12 | 7 – 12 | 7 – 12 |

### Suitable equipment

The nyloflex® ART can be processed with nyloflex® processing equipment and all similar devices. The nyloflex® ART Digital can be used with all laser systems suitable for imaging flexo printing plates.

### Printing inks

Suitable for all water based and alcohol based printing inks and conditionally suitable for UV 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 according to DIN ISO 9001 and DIN ISO 14001 standards and requirements. This process guarantees our customers consistent high quality products and services.