nyloflex® XPH Digital
nyloflex® XPM Digital

Flexo plates for high-quality printing on paper substrates for use with the nyloflex® Xpress Thermal Processor

The highest quality in thermally processed plates

• The perfect plates for thermal processing, with clean, open reverses and smooth, even surfaces
• Specially developed for printing high line screens on paper substrates
• Superior resistance to UV inks, also suitable for water based inks
• Incredible image quality, with wide tonal range for reproduction of fine image elements and smooth vignettes
• Robust and durable for longer press life and reusability
• Suitable for use with flat top exposure systems such as nyloflex® NEX

The right plate for your needs

• nyloflex® XPH – 60 Shore A* plate for printing the finest highlight quality with minimal dot gain
• nyloflex® XPM – 50 Shore A* plate for use on the smallest plate cylinders or when printing on rougher substrates

Advantages of nyloflex® Xpress Thermal Processing:

• A smarter equipment design with less maintenance, less downtime, and lower operating costs
• Outstanding finished plate quality for the most challenging graphics
• Lightning-fast turnaround time with quick processing and no drying required
• Easy implementation in existing workflows

* According to DIN 53505
nyloflex® XPH Digital | nyloflex® XPM Digital

<table>
<thead>
<tr>
<th>nyloflex® XPH Digital</th>
<th>nyloflex® XPM Digital</th>
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</thead>
<tbody>
<tr>
<td>114</td>
<td>170</td>
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<tr>
<td>114</td>
<td>170</td>
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</tbody>
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Technical characteristics

<table>
<thead>
<tr>
<th>Base material</th>
<th>polyester film</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour of raw plate</td>
<td>light blue, with black LAMS layer</td>
</tr>
<tr>
<td>Total thickness</td>
<td>1.14 (0.045)</td>
</tr>
<tr>
<td>Hardness acc. to DIN 53505 (Shore A)</td>
<td>60</td>
</tr>
<tr>
<td>Plate hardness (Shore A)</td>
<td>77</td>
</tr>
<tr>
<td>Recommended relief depth (mm)</td>
<td>0.45 - 0.6</td>
</tr>
<tr>
<td>Tonal range (%)</td>
<td>1 - 99</td>
</tr>
<tr>
<td>Fine line width (down to μm)</td>
<td>100</td>
</tr>
<tr>
<td>Isolated dot diameter (down to μm)</td>
<td>200</td>
</tr>
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Processing parameters

| Back exposure (s) | 12 – 20 | 40 – 50 | 12 – 20 | 40 – 50 |
| Main exposure (min) | 8 – 12 | 8 – 12 | 8 – 12 | 8 – 12 |
| Post exposure UV-A (min) | 10 | 10 | 10 | 10 |
| Light finishing UV-C (min) | 2 – 8 | 2 – 8 | 2 – 8 | 2 – 8 |

Suitable equipment

nyloflex® XPH and nyloflex® XPM Digital plates may be exposed using any nyloflex® exposure system and all similar devices and can be used with all laser systems suitable for imaging flexo printing plates. nyloflex® XPH and nyloflex® XPM Digital plates must be processed with the nyloflex® Xpress Thermal Processor.

Printing inks

Suitable for all UV and water based inks.

Processing information

A detailed description of the imaging and exposure 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 and DIN ISO 14001 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 and lamp age. The above mentioned processing times were established under optimum conditions on nyloflex® processing equipment. The values for the back and main exposures were determined at an exposure intensity of approximately 18 mW/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 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.

Please contact us for additional information.

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