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**NEW!**

# nyloflex<sup>®</sup> FAM Digital

Robust and flexible – especially for wide web flexible packaging

## Product features

- medium hard digital plate for a wide range of applications, especially for wide web flexible packaging printing with solvent based inks
- suitable for all absorbent and non-absorbent commonly used substrates
- for printing of fine image elements, smooth solids and clean line work
- robust and hard wearing; therefore, long plate life and cost effective
- lower impression settings required
- easy and safe processing due to color change during main exposure
- high resistance to solvent based inks and UV inks, suitable for water based inks
- available in North America only

## Advantages of nyloflex<sup>®</sup> 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

**FlintGroup**  
Flexographic Products

	nyloflex® FAM Digital			
	114	170	254	284
<b>Technical characteristics</b>				
<b>Base material</b>	<b>polyester film</b>			
<b>Color of raw plate</b>	<b>orange</b>			
<b>Total thickness* (mm)</b> (inch)	<b>1.14</b> (0.045")	<b>1.70</b> (0.067")	<b>2.54</b> (0.100")	<b>2.84</b> (0.112")
<b>Hardness acc. to DIN 53505 (Shore A)</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>
<b>Plate hardness (Shore A)</b>	<b>72</b>	<b>61</b>	<b>53</b>	<b>52</b>
<b>Relief depth (mm)</b> (inch)	<b>0.6 – 0.7</b> (0.024" – 0.028")	<b>0.7 – 0.9</b> (0.028 – 0.035")	<b>0.9 – 1.2</b> (0.035" – 0.047")	<b>0.9 – 1.2</b> (0.035" – 0.047")
<b>Tonal range (%)</b> at screen ruling	<b>1 – 98</b> <b>150 lpi</b>	<b>1 – 98</b> <b>150 lpi</b>	<b>2 – 98</b> <b>150 lpi</b>	<b>2 – 98</b> <b>150 lpi</b>
<b>Fine line width – down to µm (inch)</b>	<b>100 (0.004")</b>	<b>100 (0.004")</b>	<b>100 (0.004")</b>	<b>100 (0.004")</b>
<b>Isolated dot diameter – down to µm (inch)</b>	<b>200 (0.008")</b>	<b>200 (0.008")</b>	<b>200 (0.008")</b>	<b>200 (0.008")</b>
<b>Processing parameters**</b>				
<b>Back exposure (s)</b>	<b>5 – 25</b>	<b>5 – 25</b>	<b>30 – 80</b>	<b>30 – 80</b>
<b>Main exposure (min)</b>	<b>8 – 15</b>	<b>8 – 15</b>	<b>8 – 24</b>	<b>8 – 24</b>
<b>Washout speed (mm/min)</b> (inch/min)	<b>160 – 200</b> (6.30" – 7.87")	<b>160 – 200</b> (6.30" – 7.87")	<b>130 – 170</b> (5.12" – 6.69")	<b>130 – 170</b> (5.12" – 6.69")
<b>Drying time at 60 °C / 140 °F (h)</b>	<b>2.0</b>	<b>2.0</b>	<b>2.5 – 3.0</b>	<b>2.5 – 3.0</b>
<b>Post exposure UV-A (min)</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>
<b>Light finishing UV-C (min)</b>	<b>10 – 15</b>	<b>10 – 15</b>	<b>10 – 15</b>	<b>10 – 15</b>

<sup>1</sup> Standard thicknesses currently available – subject to change.

<sup>2</sup> 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. Under other conditions the processing times can differ from these. Therefore the above mentioned values are only to be used as a guide.

<sup>3</sup> 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.

## Suitable equipment

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

## Printing inks

Suitable for all water based, solvent based and UV printing inks<sup>3</sup>.  
(ethyl acetate content preferably below 15%, ketone content preferably below 5%)

## Washout solvents

Especially good results are achieved with nylosolv® washout solvents.  
nylosolv® solvents 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 certified standards. This process guarantees our customers that each plate is manufactured consistently to the highest standard of quality.



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