

Rely on us.<sup>SM</sup>

# nyloflex<sup>®</sup> ART nyloflex<sup>®</sup> 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<sup>3</sup>

## 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® ART | nyloflex® ART Digital

	nyloflex® ART	nyloflex® ART Digital				
	170	114	170	254	284	394
<b>Technical characteristics</b>						
<b>Base material</b>	polyester film	polyester film				
<b>Colour of raw plate</b>	red	red , with black LAMS layer				orange
<b>Total thickness<sup>1</sup> (mm)</b> (inch)	<b>1.70</b> (0.067")	<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>3.94</b> (0.155")
<b>Hardness acc. to DIN 53505 (Shore A)</b>	<b>40</b>	<b>40</b>	<b>40</b>	<b>40</b>	<b>40</b>	<b>40</b>
<b>Plate hardness (Shore A)</b>	<b>60</b>	<b>73</b>	<b>60</b>	<b>50</b>	<b>47</b>	<b>41</b>
<b>Relief depth (mm)</b>	<b>0.7 – 0.9</b>	<b>0.5 – 0.7</b>	<b>0.7 – 0.9</b>	<b>0.9 – 1.2</b>	<b>0.9 – 1.2</b>	<b>1.0 – 1.5</b>
<b>Tonal range (%)</b>	<b>2 – 95</b>	<b>1 – 98</b>	<b>1 – 98</b>	<b>2 – 98</b>	<b>2 – 98</b>	<b>3 – 90</b>
<b>at screen ruling (l/cm)</b>	<b>60</b>	<b>60</b>	<b>60</b>	<b>60</b>	<b>60</b>	<b>48</b>
<b>Fine line width (down to µm)</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>300</b>
<b>Isolated dot diameter (down to µm)</b>	<b>200</b>	<b>200</b>	<b>200</b>	<b>200</b>	<b>200</b>	<b>750</b>

<b>Processing parameters<sup>2</sup></b>						
<b>Back exposure (s)</b>	<b>20 – 40</b>	<b>15 – 30</b>	<b>20 – 40</b>	<b>40 – 60</b>	<b>80 – 120</b>	<b>100 – 150</b>
<b>Main exposure (min)</b>	<b>8 – 20</b>	<b>8 – 12</b>	<b>8 – 12</b>	<b>8 – 12</b>	<b>8 – 12</b>	<b>10 – 14</b>
<b>Washout speed (mm/min)</b>	<b>130 – 190</b>	<b>130 – 190</b>	<b>130 – 190</b>	<b>110 – 170</b>	<b>110 – 170</b>	<b>90 – 130</b>
<b>Drying time at 60 °C / 140 °F (h)</b>	<b>2.5</b>	<b>2.0</b>	<b>2.5</b>	<b>3.0</b>	<b>3.0</b>	<b>3.0</b>
<b>Post exposure UV-A (min)</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>
<b>Light finishing UV-C (min)</b>	<b>7 – 12</b>	<b>7 – 12</b>	<b>7 – 12</b>	<b>7 – 12</b>	<b>7 – 12</b>	<b>7 – 12</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. 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.

<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® 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.<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® 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.

You are welcome to contact us for further information.

**Flint Group Flexographic Products**  
Sieglestrasse 25  
70469 Stuttgart  
Germany

T +49 711 9816-541  
F +49 711 9816-801  
info.flexo@flintgrp.com  
www.flintgrp.com

The aim of our technical documents is to inform and advise our customers. The information provided herein is correct to the best of Flint Group's knowledge. No liability for any errors, facts or opinions is accepted. Customers must satisfy themselves as to the suitability of this product for their application. No responsibility for any loss as a result of any person placing reliance on any material contained herein will be accepted. Product names followed by ® are trademarks registered by Flint Group (represented by Flint Group US LLC or Flint Group Germany GmbH)

Get the app!



2016-09