

**NEW!**

# nyloflex<sup>®</sup> FHC

Hard plate for standard applications in corrugated postprint

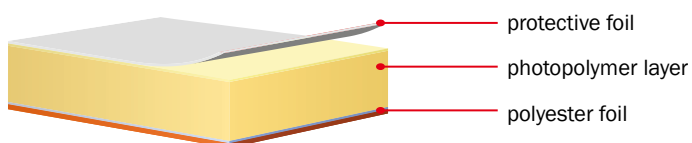
## High plate hardness for reliable print quality

- suitable for a broad range of substrates
- very good and consistent ink transfer with excellent area coverage
- high solid density and minimum dot gain in the halftones
- intermediate depths with excellent contour definition

## Efficient handling and superior durability

- convenient plate processing with short exposure times
- high print run stability due to superior resistance against mechanical stress
- long lifetime due to robust and durable material
- reduced cleaning cycles due to special surface properties

### Schematic of nyloflex<sup>®</sup> FHC



The nyloflex<sup>®</sup> FHC is a monolayer plate. It consists of a light-sensitive photopolymer layer bonded to a polyester foil.

nyloflex® FHC	
394	
<b>Technical characteristics</b>	
<b>Base material</b>	<b>polyester foil</b>
<b>Colour of raw plate</b>	<b>orange</b>
<b>Total thickness* (mm)</b> (inch)	<b>3.94</b> <b>(0.155")</b>
<b>Hardness acc. to DIN 53505 (Shore A)</b>	<b>40</b>
<b>Plate hardness (Shore A)</b>	<b>41</b>
<b>Relief depth (mm)</b>	<b>1.0 – 1.5</b>
<b>Tonal range (%)</b> <b>at screen ruling (l/cm)</b>	<b>3 – 90</b> <b>48</b>
<b>Fine line width (down to µm)</b>	<b>300</b>
<b>Isolated dot diameter (down to µm)</b>	<b>750</b>

Processing parameters**	
<b>Back exposure (s)</b>	<b>50 – 100</b>
<b>Main exposure (min)</b>	<b>8 – 18</b>
<b>Washout speed (mm/min)</b>	<b>70 – 100</b>
<b>Drying time at 60° C / 140° F (h)</b>	<b>3</b>
<b>Post exposure UV-A (min)</b>	<b>10</b>
<b>Light finishing UV-C (min)</b>	<b>10 – 15</b>

\* Standard thicknesses currently available – subject to change.

\*\* All processing parameters depend on amongst 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.

## Suitable equipment

The nyloflex® FHC can be processed with nyloflex® processing equipment and all similar devices.

## Printing inks

The nyloflex® FHC is suited for all water-based and alcohol-based printing 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 in accordance to the requirements and standards of DIN ISO 9001. This process guarantees our customers maximum quality consistence.

All information in this document is based on our present knowledge and experience at the time of printing. Due to the multitude of factors influencing the processing and application of our products, it does not exempt the user from testing and calibrating. Nor does it imply any legally binding assurance concerning specific properties of the products or the suitability for a particular application. The responsibility of observing any possible industrial property rights, laws and regulations is the obligation of the user. Subject to technical changes without prior notice. Product names marked ® are registered trademarks of Flint Group.