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XSYS

Print solid. Stay flexible.

## Innovative flexo plate solutions



nyloflex® photopolymer flexo plates

XSYS nyloflex® printing plates serve all packaging markets. Discover our wide portfolio: solvent and thermal processing; analogue and digital imaging; flat top dot and round top dot plates. At XSYS, we work in close cooperation with our customers to develop new and improved flexo plates according to our key principles of using brilliant products and services, for brilliant print results and business success.

# Unique and comprehensive expertise in flexographic printing

Printing plates from XSYS – to meet every challenge

For a long time now, flexographic printing established its place as the print process of choice for many sectors in the still growing global packaging market. Flexography offers the advantages of printing on a variety of different materials like film, paper and board, using a wide range of inks, and printing with high speeds, offering exceptionally high quality.

XSYS is one of the largest global suppliers offering both flexographic and letterpress printing plates and is a leading supplier of sleeves and adapters.

XSYS printing plates, which are sold under the brand name nyloflex®, are designed to meet every challenge. New improved formulations of photopolymer printing plates are regularly developed to further enhance the quality standards achievable in flexography and to meet the latest market developments, such as new printing substrates or higher printing speeds. These developments are made in close cooperation with customers, based on their experience and requirements.

XSYS combines experience and the latest trends in technology. With more than five decades of research and development while supplying the packaging industry, we have become experts in flexo and letterpress printing.



**We will definitely find  
the right solution for you**



## Flat Top Dot Family

**Reduce cost, save time and increase your productivity and consistency**



- + Photopolymer flexo plates with inherent flat top dots
- + Easy creation of flat top dots with standard processing equipment
- + Less dot gain tolerances – on press the flat top dots are less impression sensitive than standard digital dots resulting in improved production consistency
- + Reduce cost, save time: No additional equipment, no time consuming LED exposure or any consumables required

## Solvent Processing

**The standard in flexography for high quality plates and printing**

- + Wide range of plates covering all your needs
- + nyloflex® printing plates for solvent processing are available in different thicknesses, sizes, plate hardness and for all ink types; as digital or analogue plate; as flat top dot or round top dot plate

## Thermal Processing

**A new generation of thermal processing**

- + A complete and reliable solution for thermal processing
- + nyloflex® Xpress Thermal plates are available as flat top dot plates and as round top dot plates
- + See detailed information in the nyloflex® Xpress brochure

For all packaging solutions from XSYS visit  
[www.xsysglobal.com](http://www.xsysglobal.com) or contact us via [info@xsysglobal.com](mailto:info@xsysglobal.com)

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## Market Segments We Serve

Whether printing on film, paper, self-adhesive substrates or liners, the nyloflex® printing plates for solvent processing provide the highest, most consistent quality: fine screens and vignettes and smooth solids on all commonly used substrates.

nyloflex®	Flexible Packaging	Tag & Label	Corrugated Preprint	Corrugated Postprint	Aseptic & Fresh	Special Applications
ACE	X	X	X			
ACE UP	X	X	X		X	
ACT	X	X	X		X	
ART			X	X		
FAH	X	X				
FAR	X					
FE						X
FRC				X		
FSC				X		
FTC				X		
FTF	X					
FTH	X					
FTL				X		
FTM	X	X	X		X	
FTS	X	X	X			
FTV	X	X				
Gold A						X
NEF	X	X			X	
Seal F						X

For details, please refer to the nyloflex® technical data sheet.



Analogue Printing Plate



Plate Hardness  
(Shore A)



Digital Printing Plate



Inherently flat top dots for easy creation  
with standard processing equipment



## nyloflex® FSC

Soft plate for postprint



26

- + Unique softness in the solid segment combined with digital processing resulting in high print quality
- + Designed for transit packaging
- + Very good ink transfer, excellent solids coverage, particularly on low cost liners
- + Cost efficient and reliable, easy handling
- + Long run life and superior durability



## nyloflex® FTL

Soft flat top dot plate for fluting reduction in corrugated post-print



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- + Reliable printing performance with reduction of fluting effect
- + Reduced operating cost in favor of inherent flat top dot technology
- + Less press setup time needed due to combined screens and solids on single printing plate
- + Aiming for the highest print quality and hence lowest fluting effect as well as for a very good solid ink density (SID)



## nyloflex® FRC

Extremely durable and chip resistant plate



32

- + Perfect for all corrugated postprint applications
- + Designed for deep relief plates
- + Outstanding ink transfer, excellent solid area coverage and density
- + Optimized formula for fast exposures and processing
- + Ideal for FTD technologies, i.e. Catena-E, to reduce fluting effect on postprint board



## nyloflex® FTC

Flat top flexo plate for fluting reduction in corrugated



32

- + Inherently flat top flexo plate – no additional equipment, processing steps or consumables required
- + Significant fluting reduction on various corrugated boards
- + Excellent ink transfer and very good reproduction characteristics
- + Higher wear resistance allows for great consistency



## nyloflex® ART

Ideal for printing on fibre based packaging



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- + Ideal for corrugated pre-print on kraft, test and uncoated liners
- + For high quality postprint on corrugated board, especially fine flute folding cartons
- + High solid density and defined line work on all paper substrates; good reproduction of highlight dots
- + Excellent and consistent ink transfer, especially with water based inks



## nyloflex® ACT

Excellence in combination printing



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- + Optimised for printing designs that combine halftones and solids in one plate
- + For absorbent and non-absorbent substrates
- + High solid density and minimum dot gain in halftones
- + Wide exposure latitude and good relief depths
- + Suitable for water and solvent based inks, conditionally suitable for UV inks

\* 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.

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## nyloflex® FTM

The optimum choice for long high quality print runs with water based inks for aseptic and corrugated preprint



- + Particularly developed for the corrugated preprint and aseptic market for using water based inks
- + The plate has dot sharpening in the highlights and is able to reproduce surface screenings
- + Better in highlights than most market common plates at the same solid ink density increasing shelf appeal for brand owners



## nyloflex® FAR

Versatile and established all-round plate for all substrates



## nyloflex® FAH

Established for use with UV inks



- + For all absorbent and non-absorbent substrates commonly used today
- + For standard applications, printing of basic screens, solids and line work
- + Resistant against solvent based inks, also for water based inks, conditionally suitable for UV inks
- + Economic due to long lifetime and durability



## nyloflex® FTS

Versatile flat top dot flexo plate that is ready-to-use out of the box



- + Versatile digital plate for printing of labels, flexible packaging and folding cartons
- + Fine vignettes and optimum ink coverage in solid areas
- + Reverse elements remain open
- + Excellent resistance against UV inks, also for solvent and water based inks



## nyloflex® ACE

Sets the standard in high quality flexo printing



- + Versatile use, for flexible packaging and tag & label markets, for printing on foil and high quality paper substrates, with solvent based, water based or UV inks
- + Good solid ink density and ink transfer out of the box
- + Smooth plate surface with a very fine grain is able to hold customized surface screening patterns (e.g. Pixel+ and Woodpecker)



## nyloflex® ACE UP

Highest print performance with water based inks



- + Specialised for printing of flexible packaging
- + Good print quality combined with excellent efficiency
- + Advanced cleaning behaviour-fewer press stops
- + High solvent resistance-perfect for solvent based inks
- + Extreme durability-for long print runs
- + Compatible with LED exposure technologies



## nyloflex® NEF

Enhanced performance with LED exposure technology



- + For printing of corrugated preprint as well as for label printing or liquid/aseptic packaging
- + Best print quality and very good ink transfer, especially on paper substrates
- + Reduced surface tack for less attraction of paper dust and dirt and stacking without interleaves

- + Designed for LED exposure technology-for flexible packaging and labels
- + Significantly improved ink lay-down and high solid ink density due to distinct reproduction of surface screen patterns
- + Perfection in every detail: precise reproduction of finest details in highlights

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## nyloflex® FTF

**Flat top dot flexo plate for a simplified workflow**



- + Simplify your workflow for flexible packaging
- + Texturised surface—high ink density and even ink laydown in solids without the need for surface screening
- + Excellent print resolution—reproduction of finest elements, subtle highlights and smooth vignettes



## nyloflex® FTH

**Flat top dot flexo plate to be customized to meet your printers needs**



- + Developed especially for the flexible packaging market, to print on foil substrates with solvent-based inks
- + Smooth surface is able to hold customized surface screening patterns (e.g. Pixel+ and Woodpecker)
- + Reproduce finest details through sharpened highlights



## nyloflex® FTV

**Flat top dot flexo plate for the most demanding brand jobs**



- + Developed for the high-end flexible packaging market
- + Hard photopolymer flexo plate with inherent flat top dots
- + LED optimized plate formulation
- + Smooth plate surface is able to hold all customized surface screening patterns (e.g. Pixel+ Screening and Woodpecker Nano)

## Print Finishing

The nyloflex® coating plate range comprising foil based and aluminium based plates have been especially developed for inline and offline print finishing—for eye-catching print results.



## nyloflex® Gold A

**Unique coating plate on aluminium base**



- + High resolution printing for solid and spot coating
- + Wide application range: solid, line and screen designs
- + High register accuracy due to high dimensional stability of the aluminium base, even during repeated print runs
- + Wide exposure latitude ensures good intermediate depths
- + For dispersion and UV varnishes; good results with metal pigment and pearlescent inks



## nyloflex® Seal F

**Film based coating plate with excellent dimension stability**



- + For inline finishing in sheetfed offset presses with flexo coating units and for offline finishing in coating presses
- + For spot and full surface coating on coated papers and board
- + High resolution and print contrast
- + High stability even with UV varnishes and inks
- + Excellent dimensional stability due to thick polyester film

## Special Applications

Every now and then you'll need a plate for a special purpose, e.g. when using highly aggressive inks. XSYS offers additional plate types as special products. Contact us and we will find the right solution for your requirements.



## nyloflex® FE

**The specialist in white preprinting – developed for solid area printing**



- + High resistance against esters, ketones and alcohols, allows the use of solvent based 2-component inks for white preprinting; for solid area printing
- + Long run life with UV inks
- + High print run stability with good area coverage
- + No register problems with rubber plates

**XSYS**

Where **printing**  
meets **packaging**.



Where **expertise**  
meets **freedom**.

**Please contact us for additional information.**

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03-2023