

# XSYS

Print solid. Stay flexible.



**Be**  
brilliant.

**nyloflex®**  
**INNOVATIVE**  
**FLEXO PLATE**  
**SOLUTIONS**

# 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.

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 flexographic printing.



**WE WILL**  
**DEFINITELY FIND**  
THE RIGHT SOLUTION FOR YOU



FlatTopDot

## FLAT TOP DOT FAMILY

Increase consistency & productivity  
while reducing costs and save time



- Photopolymer flexo plates with inherent flat top dot technology.
- Consistency on press - Flat Top Dots are less pressure sensitive and contribute to an improved OEE.
- Reduce cost, save time: No additional equipment or consumables needed.



## 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

- Solvent free & rapid plate 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.


nyloflex® printing plates

# 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	Coating Applications
<div> <div>nyloflex® eco series</div> <div>NEW - Lifting proven quality to a sustainable future</div> </div>						
eco ACT	X		X		X	
eco FAC				X		
<div> <div>nyloflex®</div> <div>Newest plates in the portfolio for Flexible Packaging &amp; Narrow web - solvent processing nyloflex® plates</div> </div>						
XSN	X	X	X		X	
FTV	X	X	X			
ACE	X	X	X			
ACE UP	X	X	X		X	
ART			X	X		
FAH	X	X				
FAR	X	X	X		X	
FTF	X					
FTM	X	X	X		X	
NEF	X	X			X	
<div> <div>nyloflex®</div> <div>Xpress thermal plates processing - Flexible Packaging / Narrow Web / Paper&amp;Board applications</div> </div>						
XAH	X	X	X		X	
XPH		X	X		X	
XPM			X		X	
XVH	X	X	X		X	
XFH	X					
<div> <div>nyloflex®</div> <div>Corrugated Printing - solvent processing nyloflex® plates</div> </div>						
FHC				X		
FSC				X		
FTC				X		
FTL				X		
<div> <div>nyloflex®</div> <div>Print Finishing - solvent processing nyloflex® plates</div> </div>						
Gold A						X
Seal F						X

FOR DETAILS, PLEASE REFER TO THE nyloflex® TECHNICAL DATA SHEET.



A

Analogue repro with negative image on film

FlatTopDot

Inherently flat top dots for easy creation with standard processing equipment

60

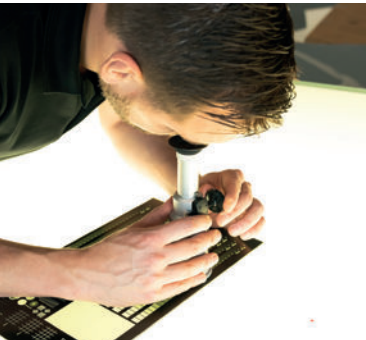
Plate Hardness (Shore A)

\*Raw material real plate hardness

D

Digital imaged plate

nyloflex® eco series



## nyloflex® eco



### Lifting proven quality to a sustainable future

- 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.

**A** **D** **50** **Ø** Flexible Packaging | Corrugated Preprint  
Aseptic & Fresh

Plate thickness **1,14** **1,70** **2,54** **2,84**  
**1,14 D** **1,70 D** **2,54 D** **2,84 D**

### Lifting proven quality to a sustainable future

- For use on all types of corrugated substrates – from rough and uneven surfaces to smooth, paper substrates.
- Outstanding with challenging and multi-colour designs.
- Very good ink transfer with excellent area coverage and high solid ink density.
- Perfect adaption to corrugated board surfaces.

Corrugated Postprint

**A** **D** **32** **Ø**

Plate thickness **2,84** **3,18** **3,94** **4,32** **4,70** **5,00** **5,50** **6,35**  
**2,84 D** **3,18 D** **3,94 D** **4,32 D** **4,70 D** **5,00 D** **5,50 D** **6,35 D**

## nyloflex® eco



## nyloflex®

Newest plates in the portfolio for Flexible Packaging & Narrow web - solvent processing nyloflex plates

## nyloflex®



### Performance & Flexibility for Narrow Web

- Durable in print and versatile in processing.
- LED optimized plate formulation also excels with bank exposure.
- Specifically designed for printing with energy-curable inks, such as UV and EB inks.
- Also suitable for water- & solvent based inks.

**60** **D** **A** Flexible Packaging | Tag & Label  
Corrugated Preprint | Aseptic & Fresh

Plate thickness **1,14 D** **1,70 D**

### 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+, Crystal & Q-Cell screenings, Woodpecker Nano).

Flexible Packaging | Tag & Label  
Corrugated Preprint

**A** **D** **67**

Plate thickness **1,14 D** **1,70 D** **2,54 D**

## nyloflex®



nyloflex®

# ACE



## Highest print performance with water based inks

- 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.

Flexible Packaging | Tag & Label  
Corrugated Preprint | Aseptic & Fresh

(A) (D) 62

Plate thickness (1,14 D) (1,70 D) (2,54 D)

## Sets the standard in high quality flexo printing

- 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.

(A) (D) 62

Flexible Packaging | Tag & Label | Corrugated Preprint

Plate thickness (1,14 (1,70 (2,54 (2,84  
(1,14 D) (1,70 D) (2,54 D)

# ACE UP



nyloflex®

# ART



## Ideal for printing on fibre based packaging

- 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.

(A) (D) 40

Corrugated Preprint | Corrugated Postprint

Plate thickness (1,70  
(1,14 D) (1,70 D) (2,54 D) (2,84 D) (3,94 D)

## Established for use with UV inks

- 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.

Flexible Packaging | Tag & Label

(A) (D) 60

Plate thickness (1,70 (2,84  
(1,14 D) (1,70 D) (2,84 D)

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# FAH



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# FAR



## Textured Flat Top Dots out of the Box for flexible packaging

- 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.

Flexible Packaging



62

Plate thickness

1,14 D

1,70 D

2,54 D

## Versatile and established all-round plate for all substrates

- 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.



50

Flexible Packaging | Tag & Label  
Corrugated Preprint | Aseptic & Fresh

Plate thickness

1,70

2,30

2,54

2,84

3,18

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# FTE



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# 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.
- Better in highlights than most market common plates at the same solid ink density increasing shelf appeal for brand owners.



50

Flexible Packaging | Tag & Label  
Corrugated Preprint | Aseptic & Fresh

Plate thickness

1,14 D

1,70 D

2,54 D

2,84 D

## Enhanced performance with LED exposure technology

- 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.

Flexible Packaging | Tag & Label | Aseptic & Fresh



62

Plate thickness

1,14 D

1,70 D

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# NEF





nyloflex®

XAH



### The thermal standard in flexo printing with water based inks

- Sharp reproduction of finest elements, screens, text and fine line work.
- Outstanding quality reproduction of smooth vignettes and high contrast images.
- Very good ink transfer provides smooth solids.

Tag & Label | Corrugated Preprint  
Aseptic & Fresh

(D) 60

Plate thickness (1,14 D) (1,70 D)

### The thermal standard in flexo printing

- Sharp reproduction of finest elements, screens, text and fine line work.
- Outstanding quality reproduction of smooth vignettes and high contrast images.
- Very good ink transfer provides smooth solids.

(A) 60

Flexible Packaging | Tag & Label  
Corrugated Preprint | Aseptic & Fresh

Plate thickness (1,14 D) (1,70 D)

nyloflex®

XPH



nyloflex®

XPM



### Thermal Performance and Versatility for flexible packaging and labels

- Exceptional print quality with finest details & perfect solids.
- Versatile plate for flexible packaging & narrow web applications.

Flexible Packaging | Tag & Label  
Corrugated Preprint | Aseptic & Fresh

(D) 60

Plate thickness (1,14 D) (1,70 D)

### The thermal standard in flexo printing for fiber materials

- Medium hard plate for consistent print quality on fiber based materials.
- Perfect combination of solids & screen work.

(D) 50

Corrugated Preprint | Aseptic & Fresh

Plate thickness (1,14 D) (1,70 D) (2,54 D) (2,84 D)

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XVH





nyloflex®

# XFH



## Performance & Flexibility for Narrow Web

- Durable in print and versatile in processing.
- LED optimized plate formulation also excels with bank exposure.
- Specifically designed for printing with energy-curable inks, such as UV and EB inks².
- Also suitable for water- & solvent based inks.

Flexible Packaging | Tag & Label  
Corrugated Preprint | Aseptic & Fresh



Plate thickness

1,14 D

1,70 D

## Textured Thermal Flat Top Dots out of the Box for flexible packaging

- Smooth, homogeneous solids, uniform vignettes and soft fade-outs.
- Significant improvement of the typical trail edge void effect.
- Even ink laydown and increased solid ink density.
- High print resolution and precise reproduction of fine elements.



Flexible packaging

Plate thickness

1,14 D

1,70 D

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# XSN



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Corrugated Printing - solvent processing nyloflex® plates

nyloflex®

# FHC



## Soft plate for postprint

- 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.

Corrugated Postprint



Plate thickness

2,84 D

3,18 D

3,94 D

4,32 D

4,70 D

5,50 D

6,00 D

6,35 D

## The analogue plate for quality corrugated post print

- Suitable for a broad range of substrates.
- Very good ink transfer and area coverage.
- Good intermediate depths with best contour definition.
- Robust and durable material for long run life and high print run stability.
- Convenient plate processing.



Corrugated Postprint

Plate thickness

3,94

nyloflex®

# FSC



nyloflex®

# FTC



## The specialist for corrugated post-print & challenging substrates

- 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).

Corrugated Postprint



Plate thickness

(2,84 D)

(3,18 D)

(3,94 D)

(6,35 D)

## For highest print quality in corrugated post- print

- 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.



Corrugated Postprint

Plate thickness

(2,84 D)

(3,18 D)

(3,94 D)

(4,70 D)

(6,35 D)

nyloflex®

# FTL



nyloflex®

Print Finishing - solvent processing nyloflex® plates

nyloflex®

# Gold A



## 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.

Coating Applications



Plate thickness

(1,16

(1,16 D)

\*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.

## Aluminium based coating plate for print finishing

- 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.



Coating Applications

Plate thickness

(1,16

(1,16 D)

\*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®

# Seal F





XSYS  
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The logo for XSYS, featuring the letters 'X', 'S', 'Y', and 'S' in a red, sans-serif font. The 'X' is formed by two intersecting diagonal lines. The background of the entire image is dark grey with a pattern of small, light grey dots that are more densely packed in the center, creating a subtle gradient effect.

# XSYS

Print solid. Stay flexible.