

Τελευταία ανανέωση υλικού:

Σύντομη περιγραφή:

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INNVESTIO

Business Unit:

Be
brilliant

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



FlatTopDot

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 or contact us via info@xsysglobal.com

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		
FAC			X	X		
FAH	X	X				
FAR	X					
FCC				X		
FE						X
FHC				X		
FSC				X		
FTC				X		
FTF	X					
FTH	X					
FTL				X		
FTM	X	X	X		X	
FTS	X	X	X			
Gold A						X
NEF	X	X			X	
Seal F						X

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

 Solvent processing Digital imaged plate	 Thermal processing Digital imaged plate	 Inherently flat top dots for easy creation with standard processing equipment
 Solvent processing Analogue repro with negative image on film	 Plate Hardness (Shore A)	 Optimized for flat top dot technologies such as ThermoFlexX Catena-E



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




28

- + 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® FCC
The durable standard in postprint


30

- + Especially for printing on coarse corrugated fluted board, with uncoated and half-coated papers
- + Ideal for retail packages with simple designs
- + Very good ink transfer with good area coverage and solid density
- + Extremely robust and durable material



nyloflex® FAC
Just brilliant - high performance
in postprint



32

- + 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



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



40

- + 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® FHC
Hard plate for standard applications
in postprint


40

- + 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

* 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.



nyloflex[®] ACT

Excellence in combination printing



- + 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



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



- + 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[®] FAH

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



nyloflex[®] FTS

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



- + 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

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



nyloflex[®] ACE UP

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



nyloflex[®] NEF

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



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

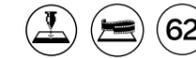
Print Finishing

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

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



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

Please contact us for additional information.

info@xsyglobal.com • www.xsyglobal.com

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05-2021



FlatTopDot



nyloflex® FTV Digital

Fine highlights and brilliant solids regardless of your exposure technology



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



Exceptional print quality

- + Print the finest stable highlights - down to 0.8% at 60 L/cm*
- + Ideal for extended gamut thanks to consistent plate quality
- + Consistent maximum color gamut achievable thanks to fine highlights and high solid ink density.

* LED exposed with Catena-E



Reduce operating cost

- + Reduce cost, save time - no additional equipment or consumables required, fits in your existing digital plate making workflow.
- + Reduce your ink consumption thanks to optimum solid ink density and improved ink laydown achieved through surface screening.
- + Longer durability thanks to less plate swelling on press.



Improve productivity and consistency

- + Less press downtime - no ink fill in thanks to the optimized plate formulation.
- + Consistent data transfer and repeatability thanks to 1-1 copy
- + Fast LED exposure times.

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nyloflex® FTV Digital

The nyloflex® FTV Digital is a LED optimized inherent flat top dot plate for the high-end flexible packaging market.

Technical characteristics	nyloflex® FTV 114 Digital	nyloflex® FTV 170 Digital
Color of raw plate	light blue	light blue
Total thickness (mm) (inch) ¹	1.14 (0.045")	1.70 (0.067")
Plate hardness (micro Shore A)	67	67
Finished plate hardness (Shore A)	80	73
Recommended relief depth (mm)	0.5 - 0.7	0.6 - 0.9
First stable dot on plate (%)	1.2	1.2
Measured dot size first stable dot (%)	0.8	0.8
Fine line width (down to µm)	20	20
Isolated dot diameter (down to µm)	100	100

Processing parameters ²		
Back exposure (s)	26 - 14	53 - 32
Main exposure (min)	8	8
Washout speed (mm/min)	205 - 270	180 - 250
Drying time at 60°C / 140°F (h)	2	2
Post exposure UV-A (min)	8	8
Light finishing UV-C (min) ³	2	2
Laser intensity (J/cm ²)	Same as for standard nyloflex® digital plates	

Processing information	
Suitable equipment	The nyloflex® FTV can be processed with nyloflex® processing equipment and all similar devices and can be used with all laser systems suitable for imaging flexo printing plates.
Printing inks	Suitable for all solvent based and UV 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 imaging, exposure and finishing steps, as well as detailed information about handling and storing, can be found in the nyloflex® User Guide.
High quality standard	nyloflex® printing plates are manufactured according to DIN ISO 9001, DIN ISO 14001 and DIN ISO 50001 standards and requirements. This process guarantees our customers consistent high quality products and services.

¹) Standard thicknesses currently available - subject to change ²) All processing parameters depend on, among other things, the processing equipment, lamp age and the type of washout solvent. A minimum exposure intensity of $\geq 17 \text{ mW/cm}^2$ is recommended. 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. ³) Depending on longevity of the tubes. ⁴) 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.

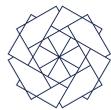
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Θέση Πάτημα, ΒΙ.ΠΕ. Καλυβίων
Καλύβια Θορικού, 190 10 (Τ.Θ. 101)

T.: 210 220 6100, 22990 61000

E.: hello@innvestio.gr

W.: www.innvestio.gr - www.innvestio.bg

