XSYS

Print solid. Stay flexible.

nyloflex® eco ACT

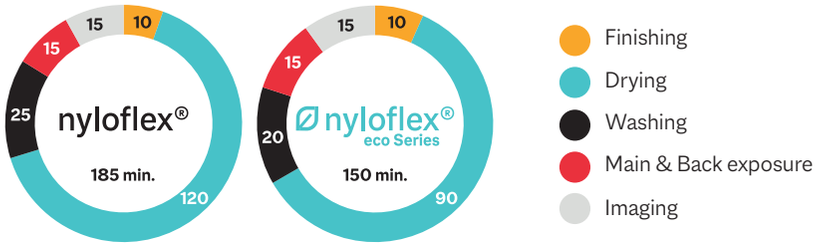
The sustainable plate for paper & board applications

Be brilliant.

SUSTAINABILITY

- Contains 24 - 29% renewable raw material.[1]
- Proven, consistent quality in a more sustainable way.
- Improved productivity on LED exposure units.
- Energy saving due to 20% faster plate processing.[2]
- Consistent and reliable plate processing (waste reduction).

IMPROVED PRODUCTIVITY



- Overall **20% faster** plate processing possible when using **nyloflex® eco plates** (in direct comparison to standard nyloflex® ACT).[2]

SEGMENTATION

- Pre-print
- Bags & Sacks
- Folding Carton
- GD2
- Paper wrappers
- Gift wrappers
- Film
- Aluminum foil

Be
brilliant.

nyloflex®
eco ACT

- Sustainable medium hard photopolymer flexo plate for the perfect combination of halftones & solids.
- Suitable for tube & LED exposure.
- Dedicated for paper & board applications with water based inks and for all absorbent and non-absorbent commonly used substrates with solvent based inks.
- Conditionally suitable for UV inks.

LET YOUR BRAND SHINE WITH PROVEN, CONSISTENT QUALITY IN A MORE SUSTAINABLE WAY

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The sustainable plate for paper & board applications

Technical characteristics	The nyloflex® eco ACT				The nyloflex® eco ACT Digital			
	114	170	254	284	114	170	254	284
Base material	Polyester film				Polyester film			
Colour of raw plate	Light blue				Light blue with black LAMS layer			
Total thickness (mm | inch)	1.14 0.045	1.70 0.067	2.54 0.100	2.84 0.112	1.14 0.045	1.70 0.067	2.54 0.100	2.84 0.112
Finished plate hardness (Shore A)	72	61	54	52	72	61	54	52
Relief depth (mm | inch)	0.6 - 0.7	0.7 - 0.9	0.9- 1.2	0.9- 1.2	0.5 - 0.7	0.7 - 0.9	0.9 - 1.2	0.9 - 1.2
Fine line width (µm)	60	60	80	80	60	60	80	80
Isolated dot diameter (µm)	100	160	200	200	100	160	200	200
Processing parameters[3]								
Back exposure (s)	15 - 30	25 - 50	25 - 50	25 - 50	15 - 30	25 - 50	25 - 50	25 - 50
Main exposure (min)	8 - 12	8 - 12	8 - 15	8- 15	8 - 12	8 - 12	12 - 15	12 - 15
Washout speed (mm/min)	230 - 280	200 - 250	180 - 230	160 - 210	230 - 280	200 - 250	180 - 230	160 - 210
Drying time at 60 °C | 140 °F (h)	1.5 - 2.0	1.5 - 2.0	2.0 - 3.0	2.0 - 3.0	1.5 - 2.0	1.5 - 2.0	2.0 - 3.0	2.0 - 3.0
Post exposure (UV-A) (min)	8	8	8	8	8	8	8	8
Light finishing (UV-C) (min)	6 - 8	6 - 8	6 - 8	6 - 8	6 - 8	6 - 8	6 - 8	6 - 8
Laser intensity (J/cm²)	N.A				3.4 J/cm² (depending on Laser manufacturer and model)			

Processing information

Suitable equipment
The nyloflex® eco ACT can be processed with nyloflex® processing equipment and all similar devices. The nyloflex® eco ACT Digital can be used with all laser systems suitable for imaging flexo printing plates.

Printing inks
Suitable for all water based and solvent based printing inks and conditionally suitable for UV inks[4]. (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.

Certification
XSYS printing plates are produced at Willstätt production site, which is certified according to international standards for quality management (DIN EN ISO 9001:2015), environmental management (DIN EN ISO14001:2015) and energy management (DIN EN ISO 50001:2018).

1) Plate thickness dependent / Analysis report available on request 2) Depending on current plate setup, used washout solvent & equipment 3) All processing parameters depend on, among other things, the processing equipment, lamp age and the type of washout solvent. A minimum exposure intensity of ≥ 17 mW/cm² is recommended. The above mentioned processing times were established under optimum conditions in our technical center. The standard test file with 149lpi was imaged at 4000DPI using a ThermoFlexX imager, 20 mW/cm² bank exposure, using nylosolv® A washout solvent and nyloflex® and ThermoFlexX Catena plate processing equipment. Under other conditions the processing times can differ from these; therefore, the above mentioned values are only to be used as a guide. 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.

Please contact us for additional information.
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