

nyloflex[®] eco ACT Digital

Lifting proven quality to a sustainable future



Plate Characteristic

- + 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



Sustainability

- + Contains 24 - 29% renewable raw material¹
- + Proven, consistent quality in a more sustainable way
- + Energy saving due to 20% faster plate processing
- + Consistent and reliable plate processing (waste reduction)

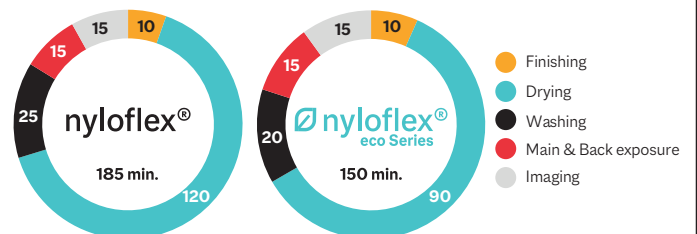


Segmentation

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



Improved productivity



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

Be
brilliant.

XSYS
Print solid. Stay flexible.

nyloflex® eco ACT Digital

The sustainable plate for paper & board applications

Technical characteristics

Base material	Polyester film			
Colour of raw plate	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
Finished plate hardness (Shore A)	73	63	54	54
Relief depth (mm inch)	0.5 - 0.7	0.7 - 0.9	0.9 - 1.2	0.9 - 1.2
Fine line width (µm)	60	60	80	80
Isolated dot diameter (µm)	100	160	200	200

Processing parameters²

Back exposure (s)	15 - 30	25 - 50	25 - 50	25 - 50
Main exposure (min)	8 - 12	8 - 12	12 - 15	12 - 15
Washout speed (mm/min)	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
Post exposure (UV-A) (min)	8	8	8	8
Light finishing (UV-C) (min)	6 - 8	6 - 8	6 - 8	6 - 8
Laser intensity (J/cm ²)	3.4 J/cm ² (depending on Laser manufacturer and model)			

Processing information

Suitable equipment	The nyloflex® eco ACT Digital 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) 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 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. 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.

Please contact us for additional information.

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