nyloflex®

ACT D

Reliable performance from film to paper and beyond



PLATE CHARACTERISTICS

- Established, versatile medium-durometer RTD plate.
- Suitable for tube & LED exposure.
- Optimized for paper and board applications with water-based ink systems, and additionally compatible with flexible packaging applications utilizing solvent-based inks.

SEGMENTATION

- Pre-print
- Bags & Sacks
- Folding Carton
- GD2
- Paper wrappers
- Gift wrappers
- Flexible Packaging



LET YOUR BRAND SHINE RIGHT ON ALL KIND OF SUBSTRATES

XSYS

nyloflex®

ACT Digital

Reliable Performance From Film to Paper and Beyond



Technical characteristics	nyloflex® ACT Digital 114	170	254	284
Base material	Polyester film			
Colour of raw plate	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)	72	61	54	52
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 parameters				
Back exposure (s)	20 - 40	20 - 50	25 - 60	25 - 60
Main exposure (min)	8 - 12	8 - 12	8 - 12	8- 12
Washout speed (mm/min)	210 - 250	170 - 210	160 - 200	150 - 190
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 - 10	6 - 10	6 - 10	6 - 10
Laser intensity (J/cm²)	3.4 J/cm² (depending on Laser manufacturer and model)			

Processing information

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

Printing inks Suitable for all solvent based printing inks and UV inks. (ethyl acetate content preferably below 15%, ketone content preferably below 5%).

Washout solvents Especially good results are achieved with nylosolv® and SOLVIT® washout solvents. nylosolv® & SOLVIT® 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).

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 Thermoflex Catena plate processing equipment. Under other conditions the processing times can differ, the above mentioned values are only to be used as a guide. 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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