XSYS

Print solid. Stay flexible.

nyloflex® ACE

The standard in high quality flexo printing

Be
brilliant.

SUPERIOR PRINT QUALITY

- **High durometer plate** for highest quality in printing of flexible packaging, labels, beverage packaging and corrugated preprint.
- **Excellent print results on film**, foil and coated paper substrates.
- **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 - ideal for High Definition Flexo (HD Flexo).
- **High solvent resistance** – perfect with solvent based inks, as well suitable for water-based inks and UV-inks.[4]

HIGHLY EFFICIENT & COST EFFECTIVE IN PRESSROOM AND PRINT

- **Fast & easy in processing.** Cleaner print runs due to Anti Ink fill-in (AIF) feature. Ideal for long print runs.
- **Easy handling**, good mounting and demounting properties due to the even floor and clear contrast.
- **Short**, accurate and consistent processing.
- **Extreme durability** – long plate run life, ideal for long print runs.
- **Excellent storage** properties and increased number of usages due to low surface tack.

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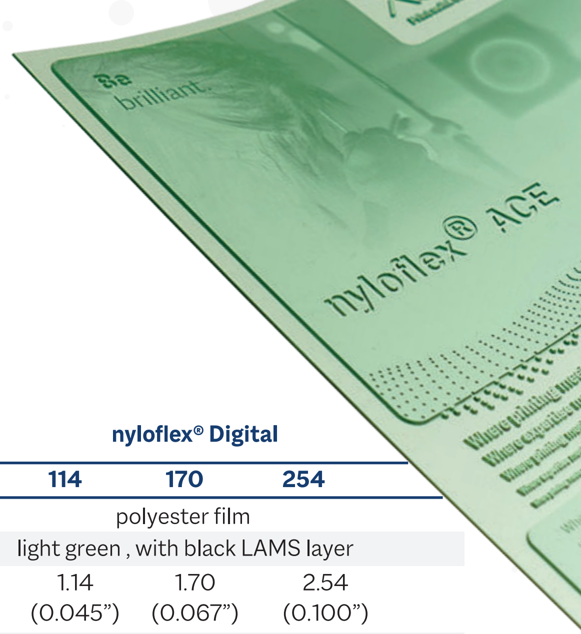
- Outstanding quality reproduction of smooth vignettes and high contrast images.
- Very good ink transfer provides smooth solids.

ENSURES COLOR CONSISTENCY OF YOUR BRAND ON THE SHELF



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Technical characteristics	nyloflex® ACE 114	nyloflex® ACE 170	nyloflex® ACE 254	nyloflex® ACE 284	nyloflex® Digital 114	nyloflex® Digital 170	nyloflex® Digital 254
Base material	polyester film				polyester film		
Colour of raw plate	light green				light green , with black LAMS layer		
Total thickness[1] (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”)
Hardness acc. to DIN 53505 (Shore A)	62	62	62	62	62	62	62
Plate hardness (Shore A)	78	70	66	64	78	70	66
Relief depth (mm)	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
Tonal range (%) at screen ruling (l/cm)	2-95 60	2-95 60	2-95 60	2-95 60	1-98 60	1-98 60	2-98 60
Fine line width (down to µm)	100	100	100	100	100	100	100
Isolated dot diameter (down to µm)	200	200	200	200	200	200	200

Processing parameters[2]								
Back exposure (s)	25-45	50-70	50-85	50-85	10-20	25-45	50-70	60-85
Main exposure (min)	8-20	8-20	8-20	8-20	8-12	8-12	8-12	8-12
Washout speed (mm/min)	200-250	180-220	160-180	160-180	200-250	180-220	160-180	160-180
Drying time at 60°C / 140°F (h)	2.0	2.0	3.0	3.0	1.5	2.0	2.0	3.0
Post exposure UV-A (min)	10	10	10	10	10	10	10	10
Light finishing UV-C (min)	2-10	2-10	2-10	2-10	2-6	2-6	2-6	2-6

Processing information

Suitable equipment The nyloflex® ACE can be processed with nyloflex® processing equipment and all similar devices. The nyloflex® ACE 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.[3] (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 individual platemaking steps, as well as detailed information about processing 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) 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 ≥ 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. 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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