

nyloflex[®] NEF

The best choice for LED exposure technology

Be
brilliant.



Outstanding print quality with LED exposure

- + High durometer plate for flexible packaging, especially designed for LED exposure technology like Catena-E.
- + Developed for creation of Flat Top Dots and excellent reproduction of most commonly used surface screening like Woodpecker Nano or MCWSI.
- + Significantly improved ink lay-down and high solid ink density due to distinct reproduction of surface screen patterns.
- + For outstanding print results on all film and foil substrates in reverse and frontal printing.
- + Perfection in every detail: precise reproduction of finest details in highlights.

Flexibility and efficiency

- + High productivity due to short exposure times and quick washout.
- + Excellent process stability, reliability and consistency in plate processing and in print.



Advantages of LED exposure technology

- ✓ Efficient creation of flat top dots and reproduction of surface screenings
- ✓ No additional consumables, no additional processing steps required
- ✓ Easy implementation in existing workflows
- ✓ Proven compatibility with LED systems in the market like Catena-E and XPS

XSYS
Print solid. Stay flexible.

Where printing meets packaging.

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Technical characteristics	nyloflex® NEF 114 Digital	nyloflex® NEF 170 Digital
Base material	polyester foil	polyester foil
Colour of raw plate	light blue	light blue
Total thickness (mm) ¹ (inch)	1.14 (0.045")	1.70 (0.067")
Hardness acc. to DIN 53505	62	62
Plate hardness (Shore A)	78	70
Recommended relief depth (mm)	0.5 - 0.6	0.5 - 0.8
Tonal range (%)	1 - 98	1 - 98
at screen ruling (L/cm)	60	60
Fine line width - down to µm	100	100
Isolated dot diameter - down to µm	200	200

Processing parameters ²		
Back exposure (s)	15 - 20	25 - 45
Certified Exposure settings for following LED systems	ThermoFlexX Catena-E, nyloflex® NExT, Esko XPS	
Washout speed (mm/min)	240-290	210-260
Drying time at 60°C / 140°F (h)	2.0	2.0
Post exposure UV-A (min)	8	8
Light finishing UV-C (min) ³	1-4	1-4

Processing information	
Suitable equipment	The nyloflex® NEF 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	The nyloflex® NEF is suitable for all alcohol based printing inks and conditionally suitable for water 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 individual platemaking steps, as well as detailed information about processing 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 5001 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, and the type of washout solvent. 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.

Please contact us for additional information.

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