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nyloflex[®] XPH Digital nyloflex[®] XPM Digital

Flexo plates for high-quality printing on paper substrates
for use with the nyloflex[®] Xpress Thermal Processor

The highest quality in thermally processed plates

- The perfect plates for thermal processing, with clean, open reverses and smooth, even surfaces
- Specially developed for printing high line screens on paper substrates
- Superior resistance to UV inks, and also suitable for use with solvent and water based inks
- Incredible image quality, with wide tonal range for reproduction of fine image elements and smooth vignettes
- Robust and durable for longer press life and reusability
- Suitable for use with flat top exposure systems such as nyloflex[®] NEXT

The right plate for your needs

- nyloflex[®] XPH – 60 Shore A* plate for printing the finest highlight quality with minimal dot gain
- nyloflex[®] XPM – 50 Shore A* plate for use on the smallest plate cylinders or when printing on rougher substrates

Advantages of nyloflex[®] Xpress Thermal Processing:

- A smarter equipment design with less maintenance, less downtime, and lower operating costs
- Outstanding finished plate quality for the most challenging graphics
- Lightning-fast turnaround time with quick processing and no drying required
- Easy implementation in existing workflows

* According to DIN 53505

nyloflex® XPH Digital | nyloflex® XPM Digital

	nyloflex® XPH Digital		nyloflex® XPM Digital	
	114	170	114	170
Technical characteristics				
Base material	polyester film		polyester film	
Colour of raw plate	light blue, with black LAMS layer		light blue, with black LAMS layer	
Total thickness¹ (mm) (inch)	1.14 (0.045)	1.70 (0.067)	1.14 (0.045)	1.70 (0.067)
Hardness acc. to DIN 53505 (Shore A)	60	60	50	50
Plate hardness (Shore A)	77	69	72	61
Recommended relief depth (mm)	0.46 – 0.56	0.46 – 0.56	0.46 – 0.56	0.46 – 0.56
Tonal range (%) at screen ruling (l/cm)	1 – 99 80	1 – 99 80	1 – 99 80	1 – 99 80
Fine line width (down to µm)	100	100	100	100
Isolated dot diameter (down to µm)	200	200	200	200

Processing parameters²				
Back exposure (s)	12 – 20	40 – 50	12 – 20	40 – 50
Main exposure (min)	8 – 12	8 – 12	8 – 12	8 – 12
Post exposure UV-A (min)	10	10	10	10
Light finishing UV-C (min)³	2 – 8	2 – 8	2 – 8	2 – 8

¹ Standard thicknesses currently available – subject to change.

² All processing parameters depend on, among other things, the processing equipment and lamp age. The above mentioned processing times were established under optimum conditions on nyloflex® processing equipment. The values for the back and main exposures were determined at an exposure intensity of approximately 18 mW/cm². 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.

Suitable equipment

nyloflex® XPH and nyloflex® XPM Digital plates may be exposed using any nyloflex® exposure system and all similar devices and can be used with all laser systems suitable for imaging flexo printing plates. nyloflex® XPH and nyloflex® XPM Digital plates must be processed with the nyloflex® Xpress Thermal Processor.

Printing inks

Suitable for all UV, water based and solvent based printing inks⁴ (ethyl acetate content preferably below 15%, ketone content preferably below 5%).

Processing information

A detailed description of the individual platemaking steps, as well as detailed information about handling and storing, can be found in the nyloflex® User Guide.

High quality standard

nyloflex® printing plates are manufactured according to DIN ISO 9001 and DIN ISO 14001 standards and requirements. This process guarantees our customers consistent high quality products and services.

Please contact us for additional information.

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