

Be
brilliant.

nyloflex[®] ART

Fulfils the highest quality print demands on fibre based packaging material



Product features

- + Ideal to print on all kind of fibre surfaces
 - + Preprint on kraft, test and uncoated liners
 - + High quality postprint on corrugated board
 - + Folding cartons
- + Suitable for printing on folding corrugated board, especially on fine flute
- + High solid density and defined line work on all paper substrates
- + Wide exposure latitude and open intermediate depths offer process stability and repeatability
- + Very good reproduction of highlight dots
- + Excellent and consistent ink transfer especially with water based inks
- + Suitable for water based and solvent based inks, conditionally suitable for UV inks³

Advantages of nyloflex[®] Digital plates

- ✓ Superior printing quality with sharper images, more open intermediate depths, finer highlight dots and less dot gain, i.e. larger range of tonal values therefore improved contrast
- ✓ Increased productivity and data transfer without loss of quality due to digital workflow
- ✓ Consistency in quality when repeating plate processing
- ✓ Cost effective and more environmentally friendly in processing, as no film is required

XSYS
Print solid. Stay flexible.

Where printing meets packaging.

nyloflex® ART

	nyloflex® ART		nyloflex® ART Digital			
	170	114	170	254	284	394
Technical characteristics	polyester film		polyester film			
Base material	polyester film		polyester film			
Colour of raw plate	red		red , with black LAMS layer			orange
Total thickness ¹ (mm)	1.70	1.14	1.70	2.54	2.84	3.94
(inch)	(0.067")	(0.045")	(0.067")	(0.100")	(0.112")	(0.155")
Hardness acc. to DIN 53505 (Shore A)	40	40	40	40	40	40
Plate hardness (Shore A)	60	73	60	50	47	41
Relief depth (mm)	0.7-0.9	0.5-0.7	0.7-0.9	0.9-1.2	0.9-1.2	1.0-1.5
Tonal range (%)	2-95	1-98	1-98	2-98	2-98	3-90
at screen ruling (l/cm)	60	60	60	60	60	48
Fine line width (down to µm)	100	100	100	100	100	300
Isolated dot diameter (down to µm)	200	200	200	200	200	750

Processing parameters²

Back exposure (s)	20-40	15-30	20-40	40-60	80-120	100-150
Main exposure (min)	8-20	8-12	8-12	8-12	8-12	10-14
Washout speed (mm/min)	130-190	130-190	130-190	110-170	110-170	90-130
Drying time at 60°C / 140°F (h)	2.5	2.0	2.5	3.0	3.0	3.0
Post exposure UV-A (min)	10	10	10	10	10	10
Light finishing UV-C (min)	7-12	7-12	7-12	7-12	7-12	7-12

Processing Information

Suitable equipment	The nyloflex® ART can be processed with nyloflex® processing equipment and all similar devices. The nyloflex® ART 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.
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 others, the processing equipment, lamp age 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. 3) 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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