

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. |
| 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 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.

info@xsyglobal.com • www.xsyglobal.com

The aim of our technical documents is to inform and advise our customers. The information provided herein is correct to the best of XSYS's knowledge. No liability for any errors, facts or opinions is accepted. Customers must satisfy themselves as to the suitability of this product for their application. No responsibility for any loss as a result of any person placing reliance on any material contained herein will be accepted. Product names followed by ® are trademarks registered by XSYS Germany GmbH and/or its affiliates.



XSYS
Print solid. Stay flexible.