



nyloflex® XSN D

- Durable in print and versatile in processing.
- LED optimized plate formulation also excels with bank exposure.
- Specifically designed for printing with energy-curable inks, such as UV and EB inks.²
- Also suitable for water- & solvent based inks.



SIMPLY PRINT!

- Finest details.
- Sturdy and resistant.
- More brilliant. Works with all kinds of surface screening



REDUCE PRESS DOWN TIME & OPERATING COSTS

- **CleanRelease Technology**
Print cleaner, faster for longer.
- **Resistant & Durable**
Suitable for a wide range of narrow web inks.²
- **Flexible Processing**
Thermal- & solvent processable.
- **Flat Top Dots - Out of the Box**
Inherent Flat Top Dot plate Technology.



SIMPLE & FAST PROCESSING

- Easy **imaging**: no need for any consumables.
- Fast main **exposure** of 8 minutes.
- Flexible **processing** - Thermal or solvent processable.
- Short **drying** time of 1.5 hour.¹
- Short **finishing** time of 8 minutes.



Be
brilliant.

APPLICATIONS

- Narrow web applications
- Labels
- Shrink sleeves
- Coated/uncoated paper
- Aluminium foil
- Flexible packaging



**DURABLE,
HIGH-QUALITY
PRINTS TO
ENHANCE
YOUR BRAND TO
BE BRILLIANT.**



FlatTopDot

nyloflex® XSN Digital

Performance & Flexibility for Narrow Web



| Technical characteristics | nyloflex® XSN 114 D | nyloflex® XSN 170 D |
|---|----------------------------------|---------------------|
| Base material | Polyester film | |
| Color of raw plate | Light blue with black LAMS layer | |
| Total thickness (mm inch) | 1.14 (0,045") | 1.70 (0,067") |
| Plate hardness (micro Shore A) | 58 | 58 |
| Finished plate hardness (Shore A) | 77 | 67 |
| Recommended relief depth (mm) | 0.5 - 0.7 | 0.6 - 0.8 |
| Target relief depth - Thermal processing (mm) | 0.5 | 0.6 |
| First stable dot on plate (%) | 2.0 | 2.0 |
| Fine line width (down to µm) | 60 | 60 |
| Isolated dot diameter (down to µm) | 120 | 120 |

Processing parameters ¹

| | | |
|--------------------------------------|---|-----------|
| Back exposure (s) | 15 - 30 | 40 - 70 |
| Main exposure (min) | 8 - 12 | 8 - 12 |
| LED exposure setting | Use manufacturer's recommended settings for nyloflex® XSN | |
| Washout speed (mm/min) | 220 - 270 | 180 - 230 |
| Thermal Processing | Use manufacturer's recommended settings for nyloflex® XSN | |
| Drying time at 60°C / 140°F (h) | 1.5 - 2.0 | 1.5 - 2.0 |
| Post exposure UV-A (min) | 8 | 8 |
| Light finishing UV-C (min) | 4 - 6 | 4 - 6 |
| Laser intensity (J/cm ²) | 3.4 J/cm ² (depending on Laser manufacturer and model) | |

Processing information

| | |
|-------------------------------|---|
| Suitable equipment | The nyloflex® XSN can be processed with the XSYS equipment portfolio including ThermoFlexX Catena and nyloflex® processing equipment and similar devices. |
| Printing inks | Suitable for all UV inks as well as water based and solvent based printing inks. ² (ethyl acetate content preferably below 15%, ketone content preferably below 5%) |
| Washout solvents | Especially good results are achieved with nylosolv® washout solvent. |
| Processing information | A description of all processing steps, as well as information about handling 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) Processing parameters depend on equipment type, condition and wash out solvent in use. 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 may differ. 2) 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

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Print solid. Stay flexible.

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