XSYS

Print solid. Stay flexible.

nyloprint®
DLE S

Direct engravable pad printing plate for highest print quality

Be brilliant.

RELIEF GENERATION IN ONE PROCESS STEP

- Pad printing plate for laser direct engraving.
- Efficient, consistent and fast plate processing.
  - Relief generation in only one process step.
  - No defects caused by dust or damaged film.
  - No data loss during transfer.

SUPERIOR PAD PRINTING QUALITY

- Screen ruling up to 380 lpi (150 L/cm).
- Excellent solid density due to brilliant ink transfer due to straight cell geometry.
- Highest resolution for the reproduction of finest details.
- Very good cup gliding characteristics –also well- suited for closed ink cups.
- Stable and repeatable print quality due to precise definition of engraving depth.
- Suitable for high run lengths.

WIDE RANGE OF APPLICATIONS

- Gravure plate for high quality pad printing.
  - For industrial, medical and promotional products.
  - For printing on toys, golf balls, decorative designs.
  - For automotive and electronic parts, dentification labels and serial numbers.
- Well-suited for halftone printing.

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DLE S

- Suitable for all standard laser systems.
- For CO_2, fibre and diode laser
- For ablation laser systems using flexo and letterpress plates (with magnetic drum).
- For all commonly used laser resolutions.

PAD PRINTING PLATE FOR LASER DIRECT ENGRAVING

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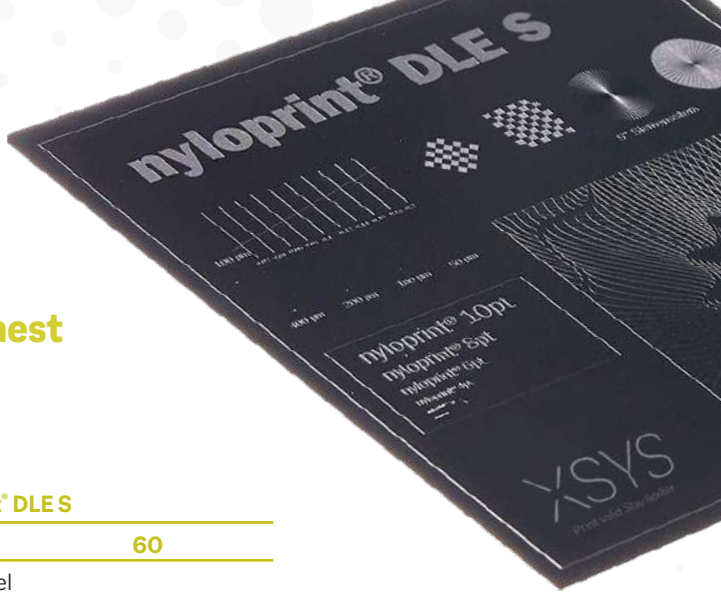

Technical characteristics[1]	nyloprint® DLE S 30	nyloprint® DLE S 60
Base material	steel	
Colour of raw plate	black	
Total thickness (mm | inch)	0.34 | 0.013″	0.38 | 0.015″
Plate hardness (Shore D)	92	
Relief depth (mm | inch)	0.030 | 0.001″	0.060 | 0.002″
Tonal range (%) at screen ruling of	2 - 95 150 L/cm (380 lpi)	
Predrying (at 60°C - 80°C) prior to the printing process	min. 10 min	

Processing Equipment

Suitable laser types
CO_2, fibre and diode lasers with appropriate exhaust ventilation and suitable filter system. Also suitable with standard ablation laser systems for flexo and letterpress plates (with magnetic drum). For detailed information regarding technical information and process parameters please contact your laser supplier.

Suitable cleaning agents
All commonly used thinner and retarder for pad printing inks. We have had good experiences with the cleaner KIWOCLEAN LM 655 and Nanovis cleaner 30.35. Water, water- and alcohol-based cleaning agents are not suitable.

Storing information
nyloprint® DLE S plates should be stored and packed so that they are protected against air humidity. Detailed information about storage can be found in the nyloprint® User Guide.

Printing inks
Suitable for commonly used pad printing inks (e.g. UV inks, solvent-based inks, 2-K inks).

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).

Please contact us for additional information.
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