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nyloprint® WS
nyloprint® WS Digital

Water washable, steel based letterpress printing plates for brilliant print quality

Product features

- **Wide range of applications**
  - ideal for laminated tubes, cups and cans printing, continous business forms, security printing, label printing, female die for blind embossing
  - suitable for rotary letterpress, imprinting units and special-purpose printing presses
- **Highest print quality**
  - high print contrast with an exceptional tonal range
  - brilliant halftone gradations due to very fine halftone dots (< 20 micron)
  - smooth vignettes
  - high resolution – up to 10 160 dpi
  - excellent solid density due to brilliant ink transfer
  - very good durability for long print runs
  - reliably reusable for repeat orders
- **Efficient, reliable and fast plate processing**
  - wide exposure latitude combined with high intermediate depths
  - highly productive and cost saving due to plate processing within 25-35 min
  - reduced down times on press due to fast replacement of damaged plates
  - environment-friendly plate processing with tap water
- **Excellent mounting properties of nyloprint® WS-T**
  - nyloprint® WS-T and nyloprint® WS-T Digital with excellent adaptation to different cylinders diameters due to very high flexibility of the thin steel base

Advantages of nyloprint® Digital

- **Higher print quality**
  - reproduction of finer details and less dot gain due to digital imaging
  - high dimensional stability
  - no defects caused by dust and damaged films
  - no data loss during transfer
  - smoother plate surface can achieve higher density
  - highly consistent especially when repeating plate processing
- **Cost effective and environmentally friendly**
  - no film costs
  - no chemicals for film development
  - electronic filing of graphics, film storage is redundant
  - easy and fast data exchange – worldwide

FlintGroup
Flexographic Products

nyloprint® WS | nyloprint® WS Digital

	nyloprint® WS | nyloprint® WS Digital					nyloprint® WS-T | nyloprint® WS-T Digital[1]
	43	58	73	83	94	73
Technical characteristics						
Base material	steel					thin steel
Colour of raw plate	red					red
Total thickness[2] (mm) (inch)	0.43 (0.017")	0.58 (0.023")	0.73 (0.029")	0.83 (0.033")	0.94 (0.037")	0.73 (0.029")
Plate hardness (Shore D)	89	84	77	76	73	77
Relief depth (mm) (inch)	0.20 (0.008")	0.32 (0.013")	0.46 (0.018")	0.56 (0.022")	0.67 (0.026")	0.56 (0.022")
Tonal range (%) at screen ruling — nyloprint® WS nyloprint® WS Digital	2 – 95 at 60 l/cm (150 lpi) 1 – 98 at 60 l/cm (150 lpi)					2 – 95 at 60 l/cm (150 lpi) 1 – 98 at 60 l/cm (150 lpi)
Fine line width (down to µm)	100	100	100	100	100	100
Isolated dot diameter (down to µm)	200	200	200	200	200	200
Distortion factor (mm) (inch)	2.08 (0.082")	3.02 (0.119")	3.85 (0.152")	4.49 (0.177")	5.19 (0.204")	4.34 (0.171")

Processing parameters[3]		
Main exposure (min) — nyloprint® WS nyloprint® WS Digital	1.0 – 5.0 1.0 – 3.5 (without vacuum film)	3.0 – 5.0 1.5 – 3.5 (without vacuum film)
Washout at 30 °C / 86 ° F (min)	1.0 – 3.5	2.5 – 3.5
Drying time at 80 °C / 176 °F (min)	10 – 15	10 – 15
Post exposure (min)	2	2

[1] non-standard product
[2] standard thicknesses currently available – subject to change
[3] All processing parameters depend on, among others, the processing equipment and lamp age. The above mentioned processing parameters were established under optimum conditions on nyloprint® processing equipment. Under other conditions the processing times can differ from these. Therefore the above mentioned values are only to be used as a guide.

Suitable equipment
nyloprint® WS plates can be processed with nyloprint® processing equipment and all similar devices. nyloprint® WS Digital plates can be used with all laser systems suitable for imaging letterpress plates.

Printing inks and varnishes
Suitable for UV and oil based inks and varnishes.

Washout medium
For washout only tap water is needed.

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

High quality standard
nyloprint® printing plates are manufactured according to DIN ISO 9001 certified standards. This process guarantees our customers that each plate is manufactured consistently to the highest standard of quality.

You are welcome to contact us for further information.

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