

nyloprint® printing plates – Technical Data

Plate Type	Total thickness ¹ (mm inch)	Plate hardness (Shore D)	Relief depth (mm inch)	Base material	Tonal range (%)	Screen ruling (up to l/cm)	Fine line width (down to µm)	Isolated dot diameter (down to µm)	Washout time ² (min)	Washout temperature	Drying ² (time at temperature)	Main fields of application
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nyloprint® printing plates – water washable

WF-H	0.70 0.028 0.80 0.031 0.95 0.037	75 73 68	0.48 0.019 0.50 0.020 0.65 0.026	Polyester	2 – 95	60	100	200	2.5 3.0 3.5	30 °C 86 °F	10 – 15 min 60 °C 140 °F	Flexible plate for label and rotary letterpress printing, male dies for blind embossing
WF-H Digital	0.80 0.031 0.95 0.037	73 68	0.50 0.020 0.65 0.026	Polyester	1 – 98	60	100	200	3.0 3.5	30 °C 86 °F	10 – 15 min 60 °C 140 °F	Flexible digital plate for label and rotary letterpress printing, male dies for blind embossing
WF-Q	0.80 0.031 0.95 0.037	72 68	0.50 0.020 0.65 0.026	Polyester	2 – 95	60	100	200	3.0 3.5	30 °C 86 °F	15 min 60 °C 140 °F	Flexible plate for label printing, also suitable for exposure with 09N-UV-A tubes and also washable with brushes, male dies for blind embossing
WF-M	0.70 0.028 0.80 0.031 0.95 0.037	73 71 63	0.56 0.022 0.50 0.020 0.71 0.026	Polyester	3 – 90	48	100	200	2.0 2.5 3.5	30 °C 86 °F	15 – 30 min 60 °C 140 °F	Flexible, medium durometer plate for label and rotary letterpress printing, for rough or uncoated substrates
WS	0.43 0.017	89	0.20 0.008	Steel	2 – 95	60	100	200	1.0	30 °C 86 °F	10 – 15 min 80 °C 176 °F	Special relief surface for high quality halftone printing, suitable for exposure with metal halide burners, also suitable for pad printing, female dies for blind embossing
	0.58 0.023	84	0.32 0.013	Steel	2 – 95	60	100	200	1.5	30 °C 86 °F	10 – 15 min 80 °C 176 °F	Special relief surface for security printing, letterset, printing on tubes, cups & cans, also suitable for pad printing
	0.73 0.029 0.83 0.033 0.94 0.037	77 76 73	0.46 0.018 0.56 0.022 0.67 0.026	Steel	2 – 95	60	100	200	2.5 3.0 3.5	30 °C 86 °F	10 – 15 min 80 °C 176 °F	Steel based plate for letterset in security printing, tubes, cups and cans as well as label printing, continuous business forms
	1.52 0.060 1.75 0.069	75 71	1.20 0.047 1.45 0.057	Steel	2 – 95	60	100	200	5.5 7.0	30 °C 86 °F	2 h 3 h 80 °C 176 °F	Hot moulding plates for mounting magnetically, also for hot foil stamping
	2.25 0.089	47	1.90 0.075	Steel	-	-	2000	2000	12.0	45 °C 113 °F	60 min 80 °C 176 °F	Hard stencil plate for security printing
WS Digital	0.43 0.017 0.58 0.023 0.73 0.029 0.83 0.033 0.94 0.037	89 84 77 76 73	0.20 0.008 0.32 0.013 0.46 0.018 0.59 0.023 0.67 0.026	Steel	1 – 98	60	100	200	1.0 1.5 2.5 3.0 3.5	30 °C 86 °F	10 – 15 min 80 °C 176 °F	Digital steel based plate for letterset in security printing, tubes, cups and cans as well as label printing, continuous business forms
	2.30 0.091	27	1.95 0.077	Steel	-	-	2000	2000	12.0	45 °C 113 °F	60 min 80 °C 176 °F	Soft stencil plate for security printing
	0.73 0.029	48	0.46 0.018	Steel	2 – 95	60	100	200	2.5	30 °C 86 °F	10 – 15 min 80 °C 176 °F	Digital steel based plate for coating and printing of special inks
	2.30 0.091	27	1.95 0.077	Steel	-	-	2000	2000	12.0	45 °C 113 °F	60 min 80 °C 176 °F	Digital soft stencil plate for security printing
WS-T	0.73 0.029	77	0.56 0.022	Thin steel	2 – 95	60	100	200	3.0	30 °C 86 °F	10 – 15 min 80 °C 176 °F	Letterset, continuous business forms, tubes, cups and cans printing, label printing, high flexibility due to the thin steel base which enables to mount the plate on magnetic cylinders without pre-rounding
WS-T Digital	0.73 0.029	77	0.56 0.022	Thin steel	1 – 98	60	100	200	3.0	30 °C 86 °F	10 – 15 min 80 °C 176 °F	Letterset, continuous business forms, tubes, cups and cans printing, label printing, high flexibility due to the thin steel base which enables to mount the plate on magnetic cylinders without pre-rounding
WS-W	0.73 0.029	77	0.46 0.018	Steel	2 – 95	60	100	200	2.5	30 °C 86 °F	10 – 15 min 80 °C 176 °F	Special relief surface for security printing, letterset, tubes, cups and cans printing; also suitable for pad printing
WA	0.73 0.029	77	0.40 0.016	Aluminium	2 – 95	60	100	200	2.5	30 °C 86 °F	10 – 15 min 80 °C 176 °F	Letterset in offset machines, format class V and VI (coating, metallic inks, special inks), metal sheet printing
	1.75 0.069	71	0.67 0.026	Aluminium	2 – 95	60	100	200	3.5	30 °C 86 °F	10 – 15 min 80 °C 176 °F	Rigid plate for flat-bed letterpress and label printing
	2.10 0.083 2.40 0.094	80 79	1.05 0.041 1.40 0.055	Aluminium	2 – 95	60	100	200	5.0 7.0	30 °C 86 °F	60 min 3 h 80 °C 176 °F	Rigid moulding plate for making rubber duplicates (hot moulding) and hot foil stamping

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nyloprint® printing plates – water washable

WSA	0.52 0.020	92	0.20 0.008	Steel	5 – 95	150	-	-	2.0	18 °C 64 °F (1 Plush)	30 min 80 °C 176 °F	Gravure plate for security printing (intaglio master plate)
										30 °C 86 °F	30 min 80 °C 176 °F	High quality pad and gravure printing
WSA Digital	0.52 0.020	92	0.20 0.008	Steel	5 – 95	150	-	-	2.0	18 °C 64 °F (1 Plush)	30 min 80 °C 176 °F	Gravure plate for security printing (intaglio master plate)
										30 °C 86 °F	30 min 80 °C 176 °F	High quality pad and gravure printing
WA-S	1.16 0.046	38	0.85 0.033	Aluminium	3 – 90	150	100	400	4.5	30 °C 86 °F	10 min 80 °C 176 °F	Water washable coating plate for security printing
WA-S Digital	1.16 0.046	38	0.85 0.033	Aluminium	3 – 90	150	100	400	4.5	30 °C 86 °F	10 min 80 °C 176 °F	Digital water washable coating plate for security printing

nyloprint® printing plates – alcohol washable

S	0.30 0.012	96	0.03 0.001	Steel	5 – 95	120	-	-	1.0	20 °C 68 °F	15 min 80 °C 176 °F	Pad printing
	0.43 0.017 0.58 0.023	90 86	0.20 0.008 0.32 0.013	Steel	5-95 ³⁾ or 2-95 ⁴⁾	120 ³⁾ 54 ⁴⁾	100	200	> 3.0 > 4.0	20 °C 68 °F ³⁾ or 35 °C 95 °F ⁴⁾	20 min 80 °C 176 °F	Letterset, form printing on continuous letterset machines as well as label printing, metal sheet printing, sheetfed and rotary letterpress printing, suitable for pad print- ing; nyloprint® S 58 also suitable as female die for blind embossing
ST	0.52 0.020	90	0.20 0.008	Steel	5 – 95	150	-	-	2.0	20 °C 68 °F	20 min 80 °C 176 °F	Gravure plate for security printing (intaglio master plate), high quality pad and gravure printing

nyloprint® printing plates

Choosing easily the right printing plate for the required application

The product names of the nyloprint® printing plates allows to easily find the right plate.

The example shows what the letters and figures of the name stand for.

note: Exceptions are **nyloprint® ST** and **nyloprint® WSA**, which were initially developed for sheetfed gravure:

T – Toluol resistant
A – Alcohol resistant

nyloprint® WF 95 Q

W – water washable

S – steel

A – aluminium

F – film

plate thickness (e.g. 0.95 mm)

H – hard

M – medium

Q – quick

T – thin

W – security

S – soft

1 Standard thicknesses currently available – subject to change.

2 All processing parameters depend on amongst others the processing equipment, lamp age and the type of washout solvent. The above mentioned processing parameters were established under optimum conditions on nyloprint® processing equipment and using our washout solution nyloprint® R 241 NP for the alcohol washable plates. Under other conditions the processing times can differ from these. Therefore the above mentioned values are only to be used as a guide.

3 For pad printing

4 For letterpress

