

nyloflex® printing plates – Technical Data

Plate Type	Total thickness* (mm inch)	Hardness acc. to DIN 53505 (Shore A)	Plate hardness (Shore A)	Relief depth (mm)	Tonal range (%)	Screen ruling (up to l/cm)	Fine line width (down to µm)	Isolated dot diameter (down to µm)	Back exposure (s)	Main exposure (min)	Washout speed (mm/min)	Drying time at 60 °C 140 °F (h)	Post exposure (U-VA) (min)	Light finishing (U-VC) (min)
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nyloflex® printing plates – conventional and digital

nyloflex® ACE	1.14 0.045	62	78	0.6 – 0.7	2 – 95	60	100	200	25 – 45	8 – 20	200 – 250	1.5 – 2.0	10	7 – 15
	1.70 0.067		70	0.7 – 0.9	2 – 95	60	100	200	35 – 50	8 – 20	180 – 220	1.5 – 2.0	10	7 – 15
	2.54 0.100		66	0.9 – 1.2	2 – 95	60	100	200	50 – 85	8 – 20	160 – 180	2.0 – 3.0	10	7 – 15
	2.84 0.112		64	0.9 – 1.2	2 – 95	60	100	200	50 – 85	8 – 20	160 – 180	2.0 – 3.0	10	7 – 15
nyloflex® ACE Digital	0.76 0.030	62	86	0.6	1 – 98	60	100	200	10 – 20	8 – 12	200 – 250	1.0 – 1.5	10	7 – 15
	1.14 0.045		78	0.6 – 0.7	1 – 98	60	100	200	25 – 45	8 – 12	180 – 220	1.5 – 2.0	10	7 – 15
	1.70 0.067		70	0.7 – 0.9	1 – 98	60	100	200	35 – 50	8 – 12	160 – 180	1.5 – 2.0	10	7 – 15
	2.54 0.100		66	0.9 – 1.2	2 – 98	60	100	200	50 – 85	8 – 12	160 – 180	2.0 – 3.0	10	7 – 15
nyloflex® AFC	1.14 0.045	62	78	0.5 – 0.7	1 – 98	60	100	200	25 – 45	12 – 20	200 – 250	1.5 – 2.0	10	7 – 15
nyloflex® FAB	1.14 0.045	62	78	0.6 – 0.7	2 – 95	60	100	200	15 – 25	12 – 20	200 – 220	2.0	10	7 – 12
	1.70 0.067		70	0.7 – 0.9	2 – 95	60	100	200	55 – 65	12 – 20	180 – 200	2.0	10	7 – 12
nyloflex® FAB Digital	1.14 0.045	62	78	0.6 – 0.7	1 – 98	60	100	200	15 – 25	8 – 12	200 – 220	2.0	10	7 – 12
	1.70 0.067		70	0.7 – 0.9	1 – 98	60	100	200	55 – 65	8 – 12	180 – 200	2.0	10	7 – 12
nyloflex® FAH	1.14 0.045	60	77	0.6 – 0.7	2 – 95	60	100	200	9 – 24	8 – 15	160 – 180	2.0	10	10 – 15
	1.70 0.067		69	0.7 – 0.9	2 – 95	60	100	200	9 – 24	8 – 15	160 – 180	2.0	10	10 – 15
	2.54 0.100		65	0.9 – 1.2	2 – 95	60	100	200	45 – 120	8 – 24	130 – 170	2.5 – 3.0	10	10 – 15
	2.84 0.112		63	0.9 – 1.2	2 – 95	60	100	200	45 – 120	8 – 24	130 – 170	2.5 – 3.0	10	10 – 15
nyloflex® FAH Digital	1.14 0.045	60	77	0.6 – 0.7	1 – 98	60	100	200	9 – 24	8 – 12	160 – 180	2.0	10	10 – 15
	1.70 0.067		69	0.7 – 0.9	1 – 98	60	100	200	9 – 24	8 – 12	160 – 180	2.0	10	10 – 15
	2.54 0.100		65	0.9 – 1.2	2 – 98	60	100	200	45 – 120	8 – 12	130 – 170	2.5 – 3.0	10	10 – 15
	2.84 0.112		63	0.9 – 1.2	2 – 98	60	100	200	45 – 120	8 – 12	130 – 170	2.5 – 3.0	10	10 – 15
nyloflex® ACT	1.14 0.045	50	74	0.6 – 0.7	2 – 95	60	100	200	25 – 50	8 – 15	210 – 250	2.0 – 3.0	10	7 – 12
	1.70 0.067		62	0.7 – 0.9	2 – 95	60	100	200	25 – 50	8 – 15	170 – 210	2.0 – 3.0	10	7 – 12
	2.54 0.100		54	0.9 – 1.2	2 – 95	60	100	200	25 – 50	8 – 20	160 – 200	2.0 – 3.0	10	7 – 12
	2.84 0.112		52	0.9 – 1.2	2 – 95	60	100	200	25 – 50	8 – 20	150 – 190	2.0 – 3.0	10	7 – 12
nyloflex® ACT Digital	1.14 0.045	50	74	0.6 – 0.7	1 – 98	60	100	200	25 – 50	8 – 12	210 – 250	2.0 – 3.0	10	7 – 12
	1.70 0.067		62	0.7 – 0.9	1 – 98	60	100	200	25 – 50	8 – 12	170 – 210	2.0 – 3.0	10	7 – 12
	2.54 0.100		54	0.9 – 1.2	2 – 98	60	100	200	25 – 50	8 – 12	160 – 200	2.0 – 3.0	10	7 – 12
	2.84 0.112		52	0.9 – 1.2	2 – 98	60	100	200	25 – 50	8 – 12	150 – 190	2.0 – 3.0	10	7 – 12
nyloflex® FAR	1.14 0.045	50	72	0.6 – 0.7	2 – 95	60	100	200	5 – 25	8 – 15	160 – 200	1.5 – 2.0	10	10 – 15
	1.70 0.067		61	0.7 – 0.9	2 – 95	60	100	200	5 – 25	8 – 15	160 – 200	2.0	10	10 – 15
	2.30 0.091		55	0.8 – 1.2	2 – 95	60	100	200	30 – 80	8 – 24	130 – 170	2.5 – 3.0	10	10 – 15
	2.54 0.100		53	0.9 – 1.2	2 – 95	60	100	200	30 – 80	8 – 24	130 – 170	2.5 – 3.0	10	10 – 15
	2.72 0.107		52	0.9 – 1.2	2 – 95	60	100	200	30 – 80	8 – 24	130 – 170	2.5 – 3.0	10	10 – 15
	2.84 0.112		52	0.9 – 1.2	2 – 95	60	100	200	30 – 80	8 – 24	130 – 170	2.5 – 3.0	10	10 – 15
nyloflex® ART	1.70 0.067	40	60	0.7 – 0.9	2 – 95	60	100	200	20 – 40	8 – 20	130 – 190	2.0 – 2.5	10	7 – 12
	2.84 0.112		47	0.9 – 1.2	2 – 95	60	100	200	80 – 120	8 – 20	110 – 170	2.0 – 3.0	10	7 – 12
nyloflex® ART Digital	1.14 0.045	40	73	0.6 – 0.7	1 – 98	60	100	200	15 – 30	8 – 12	130 – 190	1.5 – 2.0	10	7 – 12
	1.70 0.067		60	0.7 – 0.9	1 – 98	60	100	200	20 – 40	8 – 12	130 – 190	2.0 – 2.5	10	7 – 12
	2.54 0.100		50	0.9 – 1.2	2 – 98	60	100	200	40 – 60	8 – 12	110 – 170	2.0 – 3.0	10	7 – 12
	2.84 0.112		47	0.9 – 1.2	2 – 98	60	100	200	80 – 120	8 – 12	110 – 170	2.0 – 3.0	10	7 – 12
	3.94 0.155		41	1.0 – 1.5	3 – 90	48	300	750	100 – 150	10 – 14	90 – 130	2.0 – 3.0	10	7 – 12

* Standard thicknesses currently available – subject to change.

All processing parameters depend on amongst 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. The values for the main exposure of digital plates were determined at an exposure intensity of > 15mW/cm². Under other conditions the processing times can differ from these. Therefore the above mentioned values are only to be used as a guide. The use of our nylosolv® washout solvents is recommended.

nyloflex® printing plates – technical data

Plate Type	Total thickness* (mm Inch)	Hardness acc. to DIN 53505 (Shore A)	Plate hardness (Shore A)	Relief depth (mm)	Tonal range (%)	Screen ruling (up to l/cm)	Fine line width (down to µm)	Isolated dot diameter (down to µm)	Back exposure (s)	Main exposure (min)	Washout speed (mm/min)	Drying time at 60 °C 140 °F (h)	Post exposure (U-VA) (min)	Light finishing (U-VC) (min)
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nyloflex® printing plates – for corrugated postprint

nyloflex® FHC	3.94 0.155	40	41	1.0–1.5	3–90	48	300	750	50–100	8–18	70–100	3.0	10	10–15
nyloflex® FAC	2.84 0.112	32	39	0.9–1.2	2–95	48	100	200	50–150	7–16	130–150	2.5–3.0	10	10–15
	3.18 0.125		37	0.9–1.5	2–95	48	100	200	50–200	7–16	110–130	2.5–3.0	10	10–15
	3.94 0.155		33	1.0–1.5	3–95	40	300	750	50–200	7–16	80–110	2.5–3.0	10	10–15
	4.32 0.170		33	1.2–2.0	3–95	40	300	750	50–200	8–20	60–100	3.0–3.5	10	10–15
	4.70 0.185		32	1.2–2.2	3–95	40	300	750	80–200	8–20	60–90	3.0–3.5	10	10–15
	5.00 0.197		31	1.8–2.8	3–95	32	300	750	80–200	8–20	50–90	3.0–3.5	10	10–15
	5.50 0.217		31	2.0–3.0	3–95	32	300	750	80–200	8–20	50–90	3.0–3.5	10	10–15
	6.00 0.236		31	2.2–3.0	3–95	32	300	750	80–300	8–20	50–90	3.5–4.0	10	10–15
6.35 0.250	30	2.2–3.0	3–95	32	300	750	80–300	8–20	50–90	3.5–4.0	10	10–15		
nyloflex® FAC Digital	2.84 0.112	32	39	0.9–1.2	2–95	48	100	200	50–150	8–12	130–150	2.5–3.0	10	10–15
	3.18 0.125		37	0.9–1.5	2–95	48	100	200	50–150	10–14	110–130	2.5–3.0	10	10–15
	3.94 0.155		33	1.0–1.5	3–95	40	300	750	50–200	10–14	80–110	2.5–3.0	10	10–15
	4.32 0.170		33	1.2–2.0	3–95	40	300	750	50–200	10–14	60–100	3.0–3.5	10	10–15
	4.70 0.185		32	1.2–2.2	3–95	40	300	750	80–200	10–14	60–90	3.0–3.5	10	10–15
	5.00 0.197		31	1.8–2.8	3–95	32	300	750	80–200	10–14	50–90	3.0–3.5	10	10–15
	5.50 0.217		31	2.0–3.0	3–95	32	300	750	80–200	10–14	50–90	3.0–3.5	10	10–15
	6.35 0.250		30	2.2–3.0	3–95	32	300	750	80–300	10–14	50–90	3.5–4.0	10	10–15
nyloflex® FCC	3.94 0.155	30	33	1.0–1.5	3–95	32	300	750	50–70	8–18	90–100	3.0	10	10–15
	4.70 0.185		32	1.2–2.2	3–95	24	300	750	30–50	8–18	60–70	3.5	10	10–15
	5.00 0.197		31	1.8–2.8	3–95	24	300	750	50–70	8–18	60–70	4.0	10	10–15
	5.50 0.217		30	2.0–3.0	3–95	24	300	750	80–120	8–18	60–70	4.0	10	10–15
	6.00 0.236		30	2.2–3.0	3–95	24	300	750	100–140	8–18	60–70	4.0	10	10–15
	6.35 0.250		30	2.2–3.0	3–95	24	300	1000	250–300	8–18	60–70	4.0	10	10–15
nyloflex® FSC	3.94 0.155	26	28	1.0–1.5	3–95	32	300	750	50–100	8–18	90–100	3.0	10	10–15
	6.35 0.250		26	2.2–3.0	3–95	24	300	1000	250–300	8–18	60–70	4.0	10	10–15
nyloflex® FSC Digital	3.18 0.125	26	33	0.9–1.5	3–95	32	300	750	50–100	10–14	130–140	2.5–3.0	10	10–15
	3.94 0.155		28	1.0–1.5	3–95	32	300	750	50–100	10–14	90–100	3.0	10	10–15
	4.70 0.185		27	1.2–2.2	3–95	24	300	750	70–100	10–14	60–70	3.5	10	10–15
	5.50 0.217		26	2.0–3.0	3–95	24	300	750	120–160	10–14	50–60	4.0	10	10–15

nyloflex® printing plates – for special applications

nyloflex® Sprint	1.14 0.045	57	77	0.5–0.7	2–95	60	100	200	15–40	1–2	200–250	15–20 min	2	-
nyloflex® Sprint Digital	1.14 0.045	57	77	0.5–0.7	1–98	60	100	200	15–40	1–2	200–250	15–20 min	2	-
nyloflex® FE**	1.14 0.045	48	70	0.7	n.a.	n.a.	300	750	20–30	6–10	80–100	3	10	-

nyloflex® printing plates – for print finishing

nyloflex® Gold A	1.16 0.046	62	78	0.85	3–90	48	100	400	-	10–15	120–160	2	10	7–15
nyloflex® Gold A Digital	1.16 0.046	62	78	0.85	2–98	48	80	200	-	8–12	120–160	2	10	7–15
nyloflex® Seal F	1.16 0.046	36	72	0.90	3–90	48	300	750	10–12	10–15	100–130	2	10	10–15
nyloflex® Seal F Digital	1.16 0.046	36	72	0.90	2–95	48	300	750	10–12	8–12	100–130	2	10	10–15

* Standard thicknesses currently available – subject to change.

** An additional front side pre-exposure is required through the cover film: 6–15 seconds.

All processing parameters depend on amongst 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. The values for the main exposure of digital plates were determined at an exposure intensity of > 15mW/cm². Under other conditions the processing times can differ from these. Therefore the above mentioned values are only to be used as a guide. The use of our nylosolv® washout solvents is recommended.



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