

nyloflex® Printing Plates – Technical Data

Plate Type	Total thickness ¹ (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 (UV-A) (min)	Light finishing (UV-C) (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	2 – 10	
	1.70 0.067		70	0.7 – 0.9	2 – 95	60	100	200	50 – 70	8 – 20	180 – 220	1.5 – 2.0	10	2 – 10	
	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	2 – 10	
	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	2 – 10	
nyloflex® ACE Digital	0.76 0.030	62	86	0.5 – 0.6	1 – 98	60	100	200	10 – 20	8 – 12	200 – 250	1.0 – 1.5	10	2 – 6	
	1.14 0.045		78	0.5 – 0.7	1 – 98	60	100	200	25 – 45	8 – 12	180 – 220	1.5 – 2.0	10	2 – 6	
	1.70 0.067		70	0.7 – 0.9	1 – 98	60	100	200	50 – 70	8 – 12	160 – 180	1.5 – 2.0	10	2 – 6	
	2.54 0.100		66	0.9 – 1.2	2 – 98	60	100	200	60 – 85	8 – 12	160 – 180	2.0 – 3.0	10	2 – 6	
nyloflex® ACE UP Digital	1.14 0.045	62	78	0.5 – 0.7	1 – 98	60	100	200	25 – 45	8 – 12	180 – 220	1.5 – 2.0	10	2 – 10	
	1.70 0.067		70	0.7 – 0.9	1 – 98	60	100	200	50 – 85	8 – 12	160 – 180	1.5 – 2.0	10	2 – 10	
	2.54 0.100		66	0.9 – 1.2	2 – 98	60	100	200	60 – 85	8 – 12	160 – 180	2.0 – 3.0	10	2 – 10	
nyloflex® FTF Digital ²	1.14 0.045	62	78	0.5 – 0.6	1 – 98	60	100	200	20 – 30	8 – 10	250	2.0	8	1 – 2	
	1.70 0.067		70	0.5 – 0.8	1 – 98	60	100	200	30 – 50	8 – 10	180 – 200	2.0	8	1 – 2	
nyloflex® NEF Digital & nyloflex® NEXt Exposure	1.14 0.045 1.70 0.067	62	78 70	0.5 – 0.6 0.5 – 0.8	1 – 98	60	100	200	15 – 20 25 – 45	3 x 250 2 x 1000 + 2 x 200 (mm/min)	240 – 290 210 – 260	2.0	8	1 – 4	
										8 – 10					
nyloflex® NEF Digital ³															
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	8 – 12	
	1.70 0.067		69	0.7 – 0.9	2 – 95	60	100	200	9 – 24	8 – 15	160 – 180	2.0	10	8 – 12	
	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	8 – 12	
nyloflex® FAH Digital	1.14 0.045	60	77	0.5 – 0.7	1 – 98	60	100	200	9 – 24	8 – 12	160 – 180	2.0	10	8 – 12	
	1.70 0.067		69	0.7 – 0.9	1 – 98	60	100	200	9 – 24	8 – 12	160 – 180	2.0	10	8 – 12	
	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	8 – 12	
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	2.5	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	0.5 – 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	30 – 70	8 – 12	170 – 210	2.5	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	8 – 12	
	1.70 0.067		61	0.7 – 0.9	2 – 95	60	100	200	5 – 25	8 – 15	160 – 200	2.0	10	8 – 12	
	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	8 – 12	
	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	8 – 12	
	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	8 – 12	
3.18 0.125	52	0.9 – 1.5	2 – 95	60	100	200	30 – 80	8 – 24	130 – 170	3.0 – 3.5	10	8 – 12			
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	
nyloflex® ART Digital	1.14 0.045	40	73	0.5 – 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	

¹ Standard thicknesses currently available – subject to change.

² Minimum exposure intensity of ≥ 17 mW/cm². Laser intensity of 3.8 J/cm². For exposure intensities higher than 20 mW/cm² finest vignettes, down to zero, can be easily reproduced.

³ Minimum exposure intensity of ≥ 17 mW/cm².

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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Plate Type	Total thickness ¹ (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® FTC Digital ³	2.84 0.112	32	40	0.9–1.2	2–98	48	100	200	20–60	10–15	130–150	2.5–3.0	10	1–4
	3.18 0.125		38	0.9–1.5	2–98	48	100	200	20–60	10–15	100–130	2.5–3.0	10	1–4
	3.94 0.155		36	1.0–1.5	3–98	40	300	750	50–100	10–15	100–130	2.5–3.0	10	1–4
	4.70 0.185		34	1.2–2.2	3–98	40	300	750	60–120	10–15	80–120	3.0–3.5	10	1–4
nyloflex® FAC	6.35 0.250	32	32	2.2–3.0	3–98	32	300	750	80–200	10–15	60–90	3.0–4.0	10	1–4
	2.84 0.112		39	0.9–1.2	2–95	48	100	200	50–150	7–16	130–150	2.5–3.0	10	8–12
	3.18 0.125		37	0.9–1.5	3–95	48	300	750	50–200	7–16	110–130	2.5–3.0	10	8–12
	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	8–12
	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	8–12
	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	8–12
	5.00 0.197		31	1.8–2.8	3–95	32	300	750	80–200	8–20	50–90	3.0–4.0	10	8–12
5.50 0.217	31	2.0–3.0	3–95	32	300	750	80–200	8–20	50–90	3.0–4.0	10	8–12		
6.00 0.236	31	2.2–3.0	3–95	32	300	750	80–200	8–20	50–90	3.5–4.0	10	8–12		
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	8–12		
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	8–12
	3.18 0.125		37	0.9–1.2	3–95	48	300	750	50–200	10–14	110–130	2.5–3.0	10	8–12
	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	8–12
	4.32 0.170		33	1.2–1.7	3–95	40	300	750	50–200	10–14	60–100	3.0–3.5	10	8–12
	4.70 0.185		32	1.2–1.7	3–95	40	300	750	80–200	10–14	60–90	3.0–4.0	10	8–12
	5.00 0.197		31	1.8–2.8	3–95	32	300	750	80–200	10–14	50–90	3.0–4.0	10	8–12
5.50 0.217	31	2.0–3.0	3–95	32	300	750	80–200	10–14	50–90	3.0–4.0	10	8–12		
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	8–12		
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	8–12
	4.70 0.185		32	1.2–2.2	3–95	24	300	750	30–50	8–18	60–70	4.0	10	8–12
	5.00 0.197		31	1.8–2.8	3–95	24	300	750	50–70	8–18	60–70	4.0	10	8–12
	5.50 0.217		30	2.0–3.0	3–95	24	300	750	80–120	8–18	60–70	4.0	10	8–12
	6.00 0.236		30	2.2–3.0	3–95	24	300	750	100–140	8–18	60–70	4.0	10	8–12
6.35 0.250	30	2.2–3.0	3–95	24	300	1000	250–300	8–18	60–70	4.0	10	8–12		
nyloflex® FSC Digital	2.84 0.112	26	35	0.9–1.2	3–95	32	100	200	50–70	10–14	130–150	2.5–3.0	10	8–12
	3.18 0.125		33	0.9–1.2	3–95	32	300	750	50–100	10–14	130–140	2.5–3.0	10	8–12
	3.94 0.155		28	1.0–1.5	3–95	32	300	750	50–100	10–14	90–100	3.0	10	8–12
	4.32 0.170		27	1.2–1.7	3–95	24	300	750	50–100	10–14	70–90	3.5	10	8–12
	4.70 0.185		27	1.2–1.7	3–95	24	300	750	70–100	10–14	60–70	4.0	10	8–12
	5.50 0.217		26	2.0–3.0	3–95	24	300	750	120–160	10–14	50–60	4.0	10	8–12
	6.00 0.236		26	2.0–3.0	3–95	24	300	750	250–300	10–14	40–60	4.0	10	8–12
6.35 0.250	26	2.0–3.0	3–95	24	300	750	250–300	10–14	40–60	4.0	10	8–12		

nyloflex® printing plates – for special applications

nyloflex® Sprint Digital	1.14 0.045	57	77	0.5–0.7	1–98	60	100	200	15–40	1–2	170	15–20 min	2	-
nyloflex® FE ²	1.14 0.045	48	70	0.5–0.7	n.a.	n.a.	300	750	20–30	6–10	60–80	3	10	-

nyloflex® printing plates – for coating applications

nyloflex® Gold A	1.16 0.046	62	78	0.85	3–90	48	100	400	-	10–15	120–160	2	10	6–10
nyloflex® Gold A Digital	1.16 0.046	62	78	0.85	2–98	48	80	200	-	8–12	120–160	2	10	6–10
nyloflex® Seal F	1.16 0.046	36	72	0.90	3–90	48	300	750	10–12	10–15	100–130	2	10	6–10
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	6–10

¹ Standard thicknesses currently available – subject to change.

² An additional front side pre-exposure is required through the cover film: 6–15 seconds.

³ Laser intensity approx. 15–20% higher than for standard nyloflex® Digital plates. Back exposure UV-A intensity of 19 mW/cm².

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.

You are welcome to contact us for further information.

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