

nyloflex® printing plates - Technical Data



Print solid. Stay flexible.

nyloflex®	Total thickness (mm)	Total thickness (inch)	Hardness acc. to DIN 53505 (Shore A)	Plate hardness (Shore A)	Relief depth from	to (mm)	Tonal range (%)	Screen ruling used for data sheet (l/cm)	Fine line width (down to µm)	Isolated dot diameter (down to µm)	Back exposure (f)	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)
-----------	----------------------	------------------------	--------------------------------------	--------------------------	-------------------	---------	-----------------	--	------------------------------	------------------------------------	-------------------	---------------------	------------------------	-----------------------------------	----------------------------	------------------------------

Flexible Packaging, Labels and Paper - solvent processing nyloflex® plates

ACE 114	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
ACE 170	1,70	0,067	62	70	0,7	0,9	2-95	60	100	200	50-70	8-20	180-220	1.5-2.0	10	2-10
ACE 254	2,54	0,100	62	66	0,9	1,2	2-95	60	100	200	50-85	8-20	160-180	2.0-3.0	10	2-10
ACE 284	2,84	0,112	62	64	0,9	1,2	2-95	60	100	200	50-85	8-20	160-180	2.0-3.0	10	2-10
ACE 076 Digital	0,76	0,030	62	86	0,5	0,6	1-98	60	100	200	20-30	8-12	200-250	1.0-1.5	10	2-6
ACE 114 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	2-6
ACE 170 Digital	1,70	0,067	62	70	0,7	0,9	1-98	60	100	200	50-70	8-12	160-180	1.5-2.0	10	2-6
ACE 254 Digital	2,54	0,100	62	70	0,9	1,2	2-98	60	100	200	60-85	8-12	160-180	2.0-3.0	10	2-6
ACE UP 114 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
ACE UP 170 Digital	1,70	0,067	62	70	0,7	0,9	1-98	60	100	200	50-85	8-12	160-180	1.5-2.0	10	2-10
ACE UP 254 Digital	2,54	0,100	62	66	0,9	1,2	2-98	60	100	200	60-85	8-12	160-180	2.0-3.0	10	2-10
ACT 114	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
ACT 170	1,70	0,067	50	62	0,7	0,9	2-95	60	100	200	25-50	8-15	170-210	2,5	10	7-12
ACT 254	2,54	0,100	50	54	0,9	1,2	2-95	60	100	200	25-50	8-20	160-200	2.0-3.0	10	7-12
ACT 284	2,84	0,112	50	52	0,9	1,2	2-95	60	100	200	25-50	8-20	150-190	2.0-3.0	10	7-12
ACT 114 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
ACT 170 Digital	1,70	0,067	50	62	0,7	0,9	1-98	60	100	200	30-70	8-12	170-210	2,5	10	7-12
ACT 254 Digital	2,54	0,100	50	54	0,9	1,2	2-98	60	100	200	25-52	8-12	160-200	2.0-3.0	10	7-12
ACT 284 Digital	2,84	0,112	50	52	0,9	1,2	2-98	60	100	200	25-53	8-12	150-190	2.0-3.0	10	7-12
ART 170	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
ART 114 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
ART 170 Digital	1,70	0,067	40	60	0,7	0,9	1-98	60	100	200	20-40	8-12	130-190	2.0-2.5	10	7-12
ART 254 Digital	2,54	0,100	40	50	0,9	1,2	2-98	60	100	200	40-60	8-12	110-170	2.0-3.0	10	7-12
ART 284 Digital	2,84	0,112	40	47	0,9	1,2	2-98	60	100	200	80-120	8-12	110-170	2.0-3.0	10	7-12
ART 394 Digital	3,94	0,155	40	41	1	1,5	3-90	48	300	750	100-150	10-14	90-130	2.0-3.0	10	7-12
FAH 114	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
FAH 170	1,70	0,067	60	69	0,7	0,9	2-95	60	100	200	9-24	8-15	160-180	2,0	10	8-12
FAH 284	2,84	0,112	60	63	0,9	1,2	2-95	60	100	200	45-120	8-24	130-170	2.5-3.0	10	8-12
FAH 114 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
FAH 170 Digital	1,70	0,067	60	69	0,7	0,9	1-98	60	100	200	9-24	8-12	160-180	2,0	10	8-12
FAH 284 Digital	2,84	0,112	60	63	0,9	1,2	2-98	60	100	200	45-120	8-12	130-170	2.5-3.0	10	8-12
FAR 114	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
FAR 170	1,70	0,067	50	61	0,7	0,9	2-95	60	100	200	5-25	8-15	160-200	2,0	10	8-12
FAR 230	2,30	0,091	50	55	0,8	1,2	2-95	60	100	200	30-80	8-24	130-170	2.5-3.0	10	8-12
FAR 254	2,54	0,100	50	53	0,9	1,2	2-95	60	100	200	30-80	8-24	130-170	2.5-3.0	10	8-12
FAR 284	2,84	0,112	50	52	0,9	1,2	2-95	60	100	200	30-80	8-24	130-170	2.5-3.0	10	8-12
FAR 318	3,18	0,125	50	52	0,9	1,5	2-95	60	100	200	30-80	8-24	130-170	3.0-3.5	10	8-12
FTF 114 Digital*	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
FTF 170 Digital*	1,70	0,067	62	70	0,5	0,8	1-98	60	100	200	30-50	8-10	180-200	2,0	8	1-2
FTH 114 Digital	1,14	0,045	62	79	0,5	0,6	1-98	60	100	200	10-20	8-10	250-300	1.5-2.0	8	2
FTH 170 Digital	1,70	0,067	62	73	0,5	0,8	1-98	60	100	200	30-50	8-10	200-250	2,0	8	2
FTM 114 Digital	1,14	0,045	50	75	0,5	0,7	1-98	60	50	100	15-20	8-10	200-260	1.5-2.0	8	1-2
FTM 170 Digital	1,70	0,067	50	64	0,6	0,9	1-98	60	50	120	30-45	8-10	200-230	2,0	8	1-2
FTM 254 Digital	2,54	0,100	50	56	0,9	1,2	1-98	60	50	150	35-50	8-10	170-190	2.0-3.0	8	1-2
FTM 284 Digital	2,84	0,112	50	52	0,9	1,2	1-98	60	50	150	50-70	8-10	135-180	2.0-3.0	8	1-2
FTS 114 Digital	1,14	0,045	60	74	0,5	0,6	1-98	60	100	150	10-20	8-10	250-300	1.5-2.0	10	2
FTS 170 Digital	1,70	0,067	60	65	0,5	0,8	1-98	60	100	150	30-50	8-10	200-260	2,0	10	2
NEF 114 Digital	1,14	0,045	62	78	0,5	0,6	1-98	60	100	200	15-20	8-10	240-290	2,0	8	1-4
NEF 170 Digital	1,70	0,067	62	70	0,5	0,8	1-98	60	100	200	25-45	8-10	210-260	2,0	8	1-4

nyloflex®	Total thickness (mm)	Total thickness (inch)	Hardness acc. to DIN 55505 (Shore A)	Plate hardness (Shore A)	Relief depth from to (mm)	Total range (%)	Screen ruling used for data sheet (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)
-----------	----------------------	------------------------	--------------------------------------	--------------------------	---------------------------	-----------------	--	------------------------------	------------------------------------	-------------------	---------------------	------------------------	-----------------------------------	----------------------------	------------------------------

Corrugated Printing - solvent processing nyloflex® plates

FAC 284 Digital	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	8-12
FAC 318	3,18	0,125	32	37	0,9	1,5	3-95	48	300	750	50-200	7-16	110-130	2.5-3.0	10	8-12
FAC 394	3,94	0,155	32	33	1	1,5	3-95	40	300	750	50-200	7-16	80-110	2.5-3.0	10	8-12
FAC 432	4,32	0,170	32	33	1,2	2	3-95	40	300	750	50-200	8-20	80-100	3.0-3.5	10	8-12
FAC 470	4,70	0,185	32	32	1,2	2,2	3-95	40	300	750	80-200	8-20	60-90	3.0-3.5	10	8-12
FAC 500	5,00	0,197	32	31	1,8	2,8	3-95	32	300	750	80-200	8-20	50-90	3.0-4.0	10	8-12
FAC 550	5,50	0,217	32	31	2	3	3-95	32	300	750	80-200	8-20	50-90	3.0-4.0	10	8-12
FAC 600	6,00	0,236	32	31	2,2	3	3-95	32	300	750	80-300	8-20	50-90	3.5-4.0	10	8-12
FAC 635	6,35	0,250	32	30	2,2	3	3-95	32	300	750	80-300	8-20	50-90	3.5-4.0	10	8-12
FAC 284 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
FAC 318 Digital	3,18	0,125	32	37	0,9	1,5	3-95	48	300	750	50-200	10-14	110-130	2.5-3.0	10	8-12
FAC 394 Digital	3,94	0,155	32	33	1	1,5	3-95	40	300	750	50-200	10-14	80-110	2.5-3.0	10	8-12
FAC 432 Digital	4,32	0,170	32	33	1,2	2	3-95	40	300	750	50-200	10-14	80-100	3.0-3.5	10	8-12
FAC 470 Digital	4,70	0,185	32	32	1,2	2,2	3-95	40	300	750	80-200	10-14	60-90	3.0-3.5	10	8-12
FAC 500 Digital	5,00	0,197	32	31	1,8	2,8	3-95	32	300	750	80-200	10-14	50-90	3.0-4.0	10	8-12
FAC 550 Digital	5,50	0,217	32	31	2	3	3-95	32	300	750	80-200	10-14	50-90	3.0-4.0	10	8-12
FAC 635 Digital	6,35	0,250	32	30	2,2	3	3-95	32	300	750	80-300	10-14	50-90	3.5-4.0	10	8-12
FCC 394	3,94	0,155	30	33	1	1,5	3-95	32	300	750	50-70	8-18	90-100	3,0	10	8-12
FCC 470	4,70	0,185	30	32	1,2	2,2	3-95	24	300	750	30-50	8-18	60-70	4,0	10	8-12
FCC 500	5,00	0,197	30	31	1,8	2,8	3-95	24	300	750	50-70	8-18	60-70	4,0	10	8-12
FCC 550	5,50	0,217	30	30	2	3	3-95	24	300	750	80-120	8-18	60-70	4,0	10	8-12
FCC 600	6,00	0,236	30	30	2,2	3	3-95	24	300	750	100-140	8-18	60-70	4,0	10	8-12
FCC 635	6,35	0,250	30	30	2,2	3	3-95	24	300	1000	250-300	8-18	60-70	4,0	10	8-12
FHC 394	3,94	0,155	40	41	1	1,5	3-90	48	300	750	50-100	8-18	70-100	3,0	10	10-15
FSC 284 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
FSC 318 Digital	3,18	0,125	26	33	0,9	1,2	3-95	32	300	750	50-100	10-14	130-140	2.5-3.0	10	8-12
FSC 394 Digital	3,94	0,155	26	28	1	1,5	3-95	32	300	750	50-100	10-14	90-100	3,0	10	8-12
FSC 432 Digital	4,32	0,170	26	27	1,2	1,7	3-95	24	300	750	50-100	10-14	70-90	3,5	10	8-12
FSC 470 Digital	4,70	0,185	26	27	1,2	1,7	3-95	24	300	750	70-100	10-14	60-70	4,0	10	8-12
FSC 550 Digital	5,50	0,217	26	26	2	3	3-95	24	300	750	120-160	10-14	50-60	4,0	10	8-12
FSC 600 Digital	6,00	0,236	26	26	2	3	3-95	24	300	750	250-300	10-14	40-60	4,0	10	8-12
FSC 635 Digital	6,35	0,250	26	26	2	3	3-95	24	300	750	250-300	10-14	40-60	4,0	10	8-12
FTC 284 Digital*	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
FTC 318 Digital*	3,18	0,125	32	38	0,9	1,5	2-98	48	100	200	20-60	10-15	100-130	2.5-3.0	10	1-4
FTC 394 Digital*	3,94	0,155	32	36	1	1,5	3-98	40	300	750	50-100	10-15	100-130	2.5-3.0	10	1-4
FTC 470 Digital*	4,70	0,185	32	34	1,2	2,2	3-98	40	300	750	60-120	10-15	80-120	3.0-3.5	10	1-4
FTC 635 Digital*	6,35	0,250	32	32	2,2	3	3-98	32	300	750	80-200	10-15	60-90	3.0-4.0	10	1-4
FTL 284 Digital*	2,84	0,112	28	35	0,9	1,2	3-95	32	100	260	40-60	10-14	120-140	2.5-3.0	10	4
FTL 318 Digital*	3,18	0,125	28	34	0,9	1,2	3-95	32	300	300	40-60	10-14	110-130	2.5-3.0	10	4
FTL 394 Digital*	3,94	0,155	28	31	1	1,5	3-95	32	300	400	50-100	10-14	70-100	3,0	10	4
FTL 635 Digital*	6,35	0,250	28	29	2	3	3-95	24	300	750	130-180	10-14	60-70	4,0	10	4
FTV 114 Digital	1,14	0,045	67	80	0,5	0,7	1-98	60	20	100	14-26	8	205-270	2,0	8	2
FTV 170 Digital	1,70	0,067	67	73	0,6	0,9	1-98	60	20	100	32-53	8	180-250	2,0	8	2

nyloflex®	Total thickness (mm)	Total thickness (inch)	Hardness acc. to DIN 53505 (Shore A)	Plate hardness (Shore A)	Relief depth from to (mm)	Tonal range (%)	Screen ruling used for data sheet (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)
-----------	----------------------	------------------------	--------------------------------------	--------------------------	---------------------------	-----------------	--	------------------------------	------------------------------------	-------------------	---------------------	------------------------	-----------------------------------	----------------------------	------------------------------

Print Finishing - solvent processing nyloflex® plates

Gold A 116	1,16	0,046	62	78	0,85	3-90	48	100	400	n.a.	10-15	120-160	2,0	10	6-10
Gold A 116	1,16	0,046	62	78	0,85	3-90	48	100	400	n.a.	10-15	120-160	2,0	10	6-10
Gold A 116	1,16	0,046	62	78	0,85	3-90	48	100	400	n.a.	10-15	120-160	2,0	10	6-10
Gold A 116	1,16	0,046	62	78	0,85	3-90	48	100	400	n.a.	10-15	120-160	2,0	10	6-10

Special applications - solvent processing nyloflex® plates

FE 114*	1,14	0,045	48	70	0,5	0,7	n.a.	n.a.	300	750	20-30	6-10	60-80	3,0	10	n.a.
---------	------	-------	----	----	-----	-----	------	------	-----	-----	-------	------	-------	-----	----	------

Plate thicknesses currently available as standard or special product - 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® FTF: Laser intensity of 3.8 J/cm2. For exposure intensities higher than 20 mW/cm2 finest vignettes, down to zero, can be easily reproduced.

nyloflex® FE: An additional front side pre-exposure is required through the cover film: 6-15 seconds.

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

All information in this document is based on our present knowledge and experience at the time of printing. Due to the multitude of factors influencing the processing and application of our products, it does not exempt the user from testing and calibrating. Nor does it imply any legally binding assurance concerning specific properties of the products or the suitability for a particular application. The responsibility of observing any possible industrial property rights, laws and regulations is the obligation of the user. Subject to technical changes without prior notice. Product names marked ® are registered trademarks of XSYS.