

Table 1: Processing Roll Films in Small Tanks



Important

Development times shorter than 5 minutes may produce unsatisfactory uniformity.

ROLL FILM	FORMAT	EI	CI	Small Tank, Full Strength Developer					Small Tank, 1:1 Developer			
				65°F (18°C)	68°F (20°C)	70°F (21°C)	75°F (24°C)	80°F (27°C)	68°F (20°C)	70°F (21°C)	75°F (24°C)	80°F (27°C)
KODAK PROFESSIONAL PLUS-X 125 Film / 125PX	135	125/250	0.56	6½	5½	5	4	—	8¼	7½	6	—
		500	0.72	9¾	8¼	7½	5¾	—	12¼	11¼	8¾	—
		1000	0.82	11½	10	9	7	—	14¾	13½	10½	—
KODAK PROFESSIONAL PLUS-X 125 Film / 125PX	120/220	32/64	0.52	6	5¼	4¾	3¾	2¾	7½	6¾	5¼	4
		125	0.56	7	6	5½	4¼	3¼	8¼	7½	6	—
		250	0.62	7¾	6¾	6¼	4¾	3¾	9¾	8¾	6¾	5¼
		500	0.72	9¾	8¼	7½	5¾	4½	12¼	11¼	8¾	6¾
		1000	0.82	11½	10	9	7	5½	14¾	13½	10½	8
KODAK PROFESSIONAL TRI-X 400 Film / 400TX	135	400/800	0.56	8	7	6¼	4¾	—	9	8½	7¼	—
		1600	0.72	11¼	9¾	8¾	6¾	—	13¼	12¼	10½	—
		3200	0.82	—	11½	10½	8	—	15½	14½	12¼	—
KODAK PROFESSIONAL TRI-X 320 Film / 320TXP	120/220	320/640	0.56	8¾	7¾	7¼	5¾	—	11¼	10¼	8	—
		1250	0.72	13½	12	11	8¾	—	15¾	14½	11½	—
KODAK PROFESSIONAL T-MAX 100 Film / 100TMX	135/120	25/50	0.52	8¼	6¾	6	4¾	—	9	8	6¼	4¾
		100/200	0.56	8¾	7½	6½	5	—	9½	8½	6½	5
		200	0.62	9¾	8	7¼	5½	—	10½	9½	7¼	5½
		400	0.72	11½	9½	8½	6½	—	12¼	10¾	8¼	6¼
		800	0.82	12¾	10½	9½	7¼	—	13¼	11¾	9	7
KODAK T-MAX 400 Professional / TMY; KODAK T-MAX 400 Pro; KODAK PROFESSIONAL T-MAX 400 Film / 400TMY	135/120	100/200	0.52	—	—	—	—	—	—	—	—	—
		400	0.56	7¼	6½	6¼	5¼	—	9¼	8½	7	—
		800	0.62	—	6½	—	5¼	—	9¼	—	7	—
		1600	0.72	—	8½	—	6½	—	12¼	—	9	—
		3200	0.82	—	—	—	7¼	—	—	—	10	—
KODAK PROFESSIONAL T-MAX P3200 Film / P3200TMZ	135	400	0.52	—	9½	8½	6¾	5¼	12½	11½	10	8
		800	0.56	—	10½	9½	7½	6½	14	13	11½	9
		1600	0.62	—	11½	10½	8¼	6½	16	14	12½	10
		3200	0.72	—	13½	12¼	9½	7½	18½	16½	14½	11½
		6400	0.82	—	15¼	14	11	8½	20½	18½	16	13
		12500	0.92	—	17¼	15¾	12¼	9¾	22½	20½	18	14½
		25000	1.02	—	19	17½	13¾	10¾	25	23	20	16
KODAK High Speed Infrared / HIE	135	See Pub No. F-13	0.52	6½	5½	5	4	3¼	8	7½	6¼	5
			0.58	7¼	6	5½	4½	3¾	8¾	8¼	7	5½
			0.65	8	6¾	6	5	4¼	9¾	9	7½	6
			0.75	9¼	7¾	7	5¾	4¾	10¾	10	8½	6¾
			0.85	10½	9	8	6½	5½	12½	11½	9¼	7½
FUJI NEOPAN 400 Professional	135	100/200	0.52	9	7½	6½	5	3¾	8¼	7½	6	4½
		400	0.58	10	8¼	7¼	5¾	4½	9¾	9	7	5¼
		800	0.65	11½	9¾	8¾	6½	5	11½	10½	8	6
		1600	0.75	13½	11½	10½	8	6¼	13½	12½	9¾	7¼
		3200	0.85	16	13½	12	9½	7½	16½	15	11½	8½

ROLL FILM	FORMAT	EI	CI	Small Tank, Full Strength Developer					Small Tank, 1:1 Developer			
				65°F (18°C)	68°F (20°C)	70°F (21°C)	75°F (24°C)	80°F (27°C)	68°F (20°C)	70°F (21°C)	75°F (24°C)	80°F (27°C)
FUJI NEOPAN 1600 Professional	135	200	0.52	4¼	4	3½	3	2¼	5½	5	4	3½
		400	0.58	5	4½	4	3¼	2½	6	5½	4½	3¾
		800	0.65	5½	5	4½	3½	3	6¾	6¼	5	4¼
		1600	0.75	6½	5¾	5	4	3½	7½	7	5¾	4¾
		3200	0.85	7½	6½	5½	4¾	4	8½	8	6½	5¼
		6400	0.95	9	7¼	6½	5½	4¾	9¾	9	7½	6
ILFORD PAN F Plus	135	25	0.52	7¼	6	5½	4¼	3¼	6¾	6	4½	3½
		50	0.58	8½	7	6	4¾	3¾	7¾	7	5¼	4
		100	0.65	9½	8	7	5½	4¼	9½	8½	6¼	4½
		200	0.75	11	9	8	6¼	4¾	11¼	10	7½	5½
		400	0.85	12½	10	9	7	5½	13	11½	8½	6½
ILFORD FP-4 Plus	135	32/64	0.52	8	6½	5½	4½	3½	8½	7½	5½	4
		125	0.58	9½	8	6½	5¼	4	10	9	6½	5
		250	0.65	11	9	7½	6	4½	12	10¾	8	6
		500	0.75	14	11	9¼	7½	5½	14½	13	9½	7
		1000	0.85	17½	14	11½	9¼	7	17½	15½	11½	8½
ILFORD HP-5 Plus	135	100/200	0.52	8½	7½	6¾	5¼	4	10¼	9	6½	5
		400	0.58	10	8½	8	6¼	4¾	12	10½	7½	5¾
		800	0.65	12	10½	9½	7½	5¾	14¼	12½	8¾	6½
		1600	0.75	16	13	12	9	7	18	16	11½	8
		3200	0.85	NR	17½	15	11½	8½	22½	20	14	10
ILFORD DELTA 100 Professional	135	25/50	0.52	8	6¾	6	4½	3½	9	8	6	4¾
		100	0.58	9½	8	7	5½	4¼	10½	9½	7¼	5½
		200	0.65	11½	9½	8½	6½	5	12	11	8½	6½
		400	0.75	14½	11½	10½	8	6¼	14	12¾	10¼	8
		800	0.85	18½	14½	12¾	9½	7½	16¾	15½	12½	9½
ILFORD DELTA 400 Professional	135	100/200	0.52	7	6	5½	4¼	3¼	9	8	6	4¾
		400	0.58	8	7	6¼	5	4	10½	9½	7	5½
		800	0.65	9½	8	7½	5¾	4½	12¼	11	8½	6½
		1600	0.75	11½	10	9	7	5½	14½	13	10	8
		3200	0.85	14	12	10¾	8¼	6½	17	15½	12	9½

NR = Not Recommended, as determined by testing.