

KODAK PROFESSIONAL T-Max P3200 Film / TMZ

Kodak Developer or Developer & Replenisher	Developing Time (Minutes)									
	Small Tank (Agitation at 30-second intervals)					Rotary-Tube Processors (Continuous agitation)				
	68°F (20°C)	70°F (21°C)	72°F (22°C)	75°F (24°C)	80°F (27°C)	85°F (29°C)	88°F (32°C)	90°F (32°C)	92°F (33°C)	95°F (35°C)
T-Max										
EI 400	8 1/2	8	7 1/2	6 1/2	5 1/2	4 1/2	8	7 1/2	6 1/2	4 1/2
EI 800	9 1/2	9	8 1/2	7 1/2	6 1/2	5 1/2	9 1/2	9	8 1/2	7 1/2
EI 1600	10 1/2	10	9	8	7	6	10 1/2	10	9	8
EI 3200	12	11 1/2	10 1/2	9 1/2	8	6 1/2	12	11 1/2	10 1/2	8 1/2
EI 6400	13 1/2	12 1/2	11 1/2	10 1/2	9 1/2	8 1/2	13 1/2	12 1/2	11 1/2	9 1/2
EI 12,500*	15 1/2	14 1/2	13 1/2	12 1/2	11 1/2	10 1/2	15 1/2	14 1/2	13 1/2	11 1/2
EI 25,000*	NR	16	15	14 1/2	13 1/2	12 1/2	NR	16	15	13 1/2
T-Max RS										
EI 400	9	8 1/2	7 1/2	6 1/2	5 1/2	4 1/2	9	8 1/2	7 1/2	5 1/2
EI 800	10 1/2	9 1/2	8 1/2	7 1/2	6 1/2	5 1/2	10 1/2	9 1/2	8 1/2	6 1/2
EI 1600	12	11	10	9 1/2	8 1/2	7	12	11	10	8 1/2
EI 3200	14 1/2	13 1/2	12 1/2	11 1/2	10 1/2	8 1/2	14 1/2	13 1/2	12 1/2	10 1/2
EI 6400	16 1/2	15 1/2	14 1/2	13 1/2	12 1/2	11 1/2	16 1/2	15 1/2	14 1/2	12 1/2
EI 12,500*	18 1/2	17 1/2	16 1/2	15 1/2	14 1/2	13 1/2	18 1/2	17 1/2	16 1/2	14 1/2
EI 25,000*	NR	17	16 1/2	15 1/2	14 1/2	13 1/2	NR	17	16 1/2	14 1/2
D-76										
EI 400	10 1/2	9 1/2	8 1/2	7 1/2	6	5	10 1/2	9 1/2	8 1/2	6
EI 800	11 1/2	10 1/2	9 1/2	8 1/2	7 1/2	6 1/2	11 1/2	10 1/2	9 1/2	7 1/2
EI 1600	12 1/2	11 1/2	10 1/2	9 1/2	8 1/2	7 1/2	12 1/2	11 1/2	10 1/2	8 1/2
EI 3200	14	13	12 1/2	11 1/2	10 1/2	9 1/2	14	13	12 1/2	10 1/2
EI 6400	15 1/2	14 1/2	13 1/2	12 1/2	11 1/2	10 1/2	15 1/2	14 1/2	13 1/2	11 1/2
HC-110 (Dil B)										
EI 400	7 1/2	6 1/2	5 1/2	4 1/2	3 3/4	3 1/4	7 1/2	6 1/2	5 1/2	3 3/4
EI 800	8 1/2	7 1/2	6 1/2	5 1/2	4 1/2	3 3/4	8 1/2	7 1/2	6 1/2	4 1/2
EI 1600	9 1/2	8 1/2	7 1/2	6 1/2	5 1/2	4 1/2	9 1/2	8 1/2	7 1/2	5 1/2
EI 3200	10 1/2	9 1/2	8 1/2	7 1/2	6 1/2	5 1/2	10 1/2	9 1/2	8 1/2	6 1/2
EI 6400	12	11 1/2	10 1/2	9 1/2	8 1/2	7 1/2	12	11 1/2	10 1/2	8 1/2
Xtrol										
EI 400	9 1/2	8 1/2	7 3/4	6 3/4	5 3/4	4 3/4	9 1/2	8 1/2	7 3/4	5 3/4
EI 800	10 1/2	9 1/2	8 3/4	7 3/4	6 3/4	5 3/4	10 1/2	9 1/2	8 3/4	6 3/4
EI 1600	11 1/2	10 1/2	9 1/2	8 1/2	7 1/2	6 1/2	11 1/2	10 1/2	9 1/2	7 1/2
EI 3200	13 1/2	12 1/2	11 1/2	10 1/2	9 1/2	8 1/2	13 1/2	12 1/2	11 1/2	9 1/2
EI 6400	15 1/4	14	12 3/4	11 1/2	10 1/2	8 3/4	15 1/4	14	12 3/4	11 1/2

KODAK PROFESSIONAL T-Max P3200 Film / TMZ (Large Tank)

Kodak Developer or Developer & Replenisher	Developing Time (Minutes)		
	68°F (20°C)	70°F (21°C)	75°F (24°C)
T-Max RS			
EI 400	10	9 1/2	8
EI 800	12	10 1/2	9 1/2
EI 1600	13 1/2	12 1/2	10 1/2
EI 3200	16 1/2	14 1/2	13
EI 6400	NR	17	15 1/2
EI 12,500*	NR	NR	16 1/2
Xtrol			
EI 400	10 1/2	9 1/2	7 1/2
EI 800	11 3/4	10 1/4	8 1/2
EI 1600	13	12	9 1/4
EI 3200	15 1/4	13 3/4	10 3/4
EI 6400	17 1/4	15 1/4	12 1/4

* Make tests to determine if results at these speeds are acceptable for your needs.
 † The recommendations for using Kodak Xtrol Developer in a large tank are based on a nitrogen burst cycle of 2 seconds every 8 seconds.
 NR=Not recommended
 Note: Tank development times shorter than 5 minutes may produce unsatisfactory uniformity.

KODAK PROFESSIONAL PLUS-X 125 Film / 125PX (135,120, & 220) (Rolls)

Kodak Developer or Developer & Replenisher	Developing Time (Minutes)					
	Small Tank (Agitation at 30-second intervals)			Large Tank (Agitation at 1-minute intervals)†		
	65°F (18°C)	68°F (20°C)	70°F (21°C)	72°F (22°C)	75°F (24°C)	75°F (24°C)
T-Max						
EI 400	6 1/4	5 3/4	5 1/4	4 3/4	4 1/4	—
EI 800	5	4 1/4	4	3 1/2	3	3 1/2
EI 1600	6 1/2	5 1/2	5	4 1/2	4	4 1/2
EI 3200	10	8 1/2	7 3/4	7 1/4	6	6 3/4
EI 6400	4	3 1/2	3	2 3/4	2 1/2	2 3/4
EI 12,500*	9 1/4	8 1/4	7 1/4	6 3/4	5 3/4	6 1/2
EI 25,000*	NR	13	11 3/4	10 3/4	9 1/4	10 3/4
Microdol-X (1:3)						
EI 400	6 1/2	5 1/2	5	4 1/2	4	4 1/2
EI 800	7	6	5 1/2	5	4 1/4	4 1/2
EI 1600	—	6 1/4	5 1/2	5	4 1/4	4 3/4
EI 3200	—	7 1/2	6 1/4	5 1/2	4 1/2	5 1/2
EI 6400	—	6 1/4	5 1/2	4 1/2	4	4 3/4

KODAK PLUS-X Pan Professional Film / PXT (Sheets)

Kodak Developer or Developer & Replenisher	Developing Time (Minutes)					
	Tray (Continuous agitation)			Large Tank (Agitation at 1-minute intervals)†		
	65°F (18°C)	70°F (21°C)	72°F (22°C)	75°F (24°C)	65°F (18°C)	75°F (24°C)
T-Max RS						
EI 400	10	9	7 1/2	6 1/2	10	7
EI 800	7	6	5 1/2	5	9	6
EI 1600	8	7	6 1/2	6	8	6
EI 3200	6	5	4 3/4	4 1/2	8	6 1/2
EI 6400	9	8	7 1/2	7	11	8
EI 12,500*	5	4 1/2	4 1/4	4	6 1/2	5
EI 25,000*	7 1/2	6 1/4	5 3/4	—	8 1/2	4 3/4

KODAK PROFESSIONAL BW Duplicating Film SO-132

Kodak Developer	Developing Time (Minutes)	
	Tray (Continuous agitation)	Large Tank (Agitation at 1-minute intervals)†
	68°F (20°C)	
Dextrol (1:1)	2	4 to 6
DK-50	4 to 6	4 to 6
D-76 (1:1)	10	10
Xtrol	5	5
Xtrol (1:2)	12	12

* Use only Kodak HC-110 Developer (Dilution B) to process long rolls on spiral reels; develop for 6 minutes at 68°F (20°C).
 † The recommendations for using Kodak Xtrol Developer in a large tank are based on a nitrogen burst cycle of 2 seconds every 8 seconds.
 NR=Not recommended
 Bold type=Primary recommendations
 Note: Tank development times shorter than 5 minutes may produce unsatisfactory uniformity.