

FILM

68° / 70° / 72°F

NINE FILMS. TWO DEVELOPERS EACH.

DEVELOPMENT



SHUTTER BUG
ACADEMY

PULL -1 / BASE EI / PUSH +1

TIMES M:SS ≈ ESTIMATE — NO PUBLISHED RECIPE

KODAK01

TRI-X 400

D-76 · 1+1PICK

EI	68°F	70°F	72°F
- 200	—	—	—
• 400	9:45	9:00	8:30
+ 800	9:45	9:00	8:30

T-MAX · 1+4ALT

EI	68°F	70°F	72°F
- 200	—	—	—
• 400	6:00	5:45	5:30
+ 800	6:00	5:45	5:30

EI 800: Kodak specifies normal time.

KODAK02

T-MAX 100

T-MAX · 1+4PICK

EI	68°F	70°F	72°F
- 50	—	—	—
• 100	7:30	7:00	6:30
+ 200	7:30	7:00	6:30

D-76 · 1+1ALT

EI	68°F	70°F	72°F
- 50	—	—	—
• 100	9:30	8:30	7:30
+ 200	9:30	8:30	7:30

EI 200: Kodak specifies normal time.

KODAK03

T-MAX 400

T-MAX · 1+4PICK

EI	68°F	70°F	72°F
- 200	—	—	—
• 400	6:45	6:15	6:00
+ 800	6:45	6:15	6:00

D-76 · 1+1ALT

EI	68°F	70°F	72°F
- 200	—	—	—
• 400	10:15	9:30	9:00
+ 800	10:15	9:30	9:00

EI 800: Kodak specifies normal time.

KODAK04

T-MAX P3200

T-MAX · 1+4PICK

EI	68°F	70°F	72°F
- 1600	10:30	10:00	9:00
• 3200	12:00	11:30	10:30
+ 6400	13:30	13:00	12:00

D-76 · STOCKALT

EI	68°F	70°F	72°F
- 1600	12:30	11:30	10:30
• 3200	14:00	13:00	11:30
+ 6400	15:30	14:00	13:00

±1 is relative to EI 3200, not ISO.

ILFORD05

HP5 PLUS

DD-X · 1+4PICK

EI	68°F	70°F	72°F
- 200	—	—	—
• 400	9:00	≈8:00	≈7:15
+ 800	10:00	≈9:00	≈8:00

D-76 · 1+1ALT

EI	68°F	70°F	72°F
- 200	—	—	—
• 400	11:00	≈10:00	≈9:00
+ 800	13:00	≈11:45	≈10:30

Pull recipe not listed in selected sheets.

ILFORD06

FP4 PLUS

DD-X · 1+4PICK

EI	68°F	70°F	72°F
- 64	—	—	—
• 125	10:00	≈9:00	≈8:00
+ 250	—	—	—

D-76 · 1+1ALT

EI	68°F	70°F	72°F
- 64	—	—	—
• 125	11:00	≈10:00	≈9:00
+ 250	—	—	—

68°F / EI 50 → 200: DD-X 8:00 → 12:00;
D-76 9:00 → 15:00. Not exact ±1 stop.

ILFORD07

DELTA 100

DD-X · 1+4PICK

EI	68°F	70°F	72°F
- 50	8:00	≈7:15	≈6:30
• 100	10:30	≈9:30	≈8:30
+ 200	12:30	≈11:15	≈10:00

D-76 · 1+1ALT

EI	68°F	70°F	72°F
- 50	9:30	≈8:30	≈7:45
• 100	12:00	≈10:45	≈9:45
+ 200	14:00	≈12:30	≈11:15

≈ Temperatures are calculated estimates.

ILFORD08

DELTA 3200

DD-X · 1+4PICK

EI	68°F	70°F	72°F
- 1600	8:00	≈7:30	≈6:45
• 3200	9:30	≈8:45	≈8:00
+ 6400	12:30	≈11:30	≈10:30

MICROPHEN · STOCKALT

EI	68°F	70°F	72°F
- 1600	8:00	≈7:30	≈6:45
• 3200	9:00	≈8:30	≈7:45
+ 6400	12:00	≈11:15	≈10:30

±1 is relative to EI 3200, not ISO.

FUJIFILM09

ACROS II 100

D-76 · STOCKPICK

EI	68°F	70°F	72°F
- 50	—	—	—
• 100	7:15	≈6:45	6:15†
+ 200	10:00	≈9:15	8:30†

ID-11 · STOCKALT

EI	68°F	70°F	72°F
- 50	—	—	—
• 100	6:45	≈6:15	5:45†
+ 200	—	—	—

NEOPAN ACROS II / 35mm only.
† Source pairs 22°C with nominal 72°F.

KEEP THE RHYTHM.

KODAK	30 SEC	ILFORD	1 MIN	FUJIFILM	1 MIN
3-4 inversions in 5 seconds initially; repeat every 30 seconds.					
4 inversions in the first 10 seconds; repeat at the start of each minute.					
Continuous agitation for the first minute; then 5 seconds every minute.					

READ BEFORE MIXING

1+1 = equal stock + water. 1+4 = one concentrate + four water. STOCK = undiluted prepared stock.
Use the stated agitation, fresh chemistry and adequate capacity. PICK / ALT are editorial selections.
≈ = calculated starting point, rounded to 15 sec; not a manufacturer-exact time. — = test before use.
Kodak temperatures follow published °F columns; Fuji † uses the source's rounded °F/°C pairing.
Stop / fix / wash: follow product sheets.