

KODAK PLUS-X PAN FILM

PX-135

This medium-speed panchromatic film has extremely fine grain and high definition which provide excellent picture sharpness, even at very great degrees of enlargement.

HANDLING

Always load and unload your camera in subdued light. After the last exposure and before opening the camera, rewind the film into the magazine.

FILM SPEED—ASA 125

Use this number with meters and automatic cameras marked for American Standard (ASA) Speeds, in daylight or artificial light. The number will give the minimum exposure required to produce negatives of highest quality, with normal development.

If your negatives are consistently too thin, increase exposure by using a lower number; if too dense, reduce exposure by using a higher number.

OUTDOOR EXPOSURE GUIDE FOR AVERAGE SUBJECTS

SHUTTER SPEED 1/250 SECOND		SHUTTER SPEED 1/125 SECOND					
BRIGHT OR HAZY SUN		CLOUDY BRIGHT (No SHADOWS) f8	HEAVY OVERCAST f5.6	OPEN SHADE† f5.6			
VERY LIGHT SUBJECTS f16	AVERAGE SUBJECTS f11*						
*f5.6 at 1/250 second for backlit subjects.							
†Subject shaded from the sun but lighted by a large area of sky.							

FLASH

Use the following values as guides and change them to fit individual conditions of use. To determine the f-number for average subjects, divide the proper guide number by the flash-to-subject distance in feet or use the *KODAK Master Photoguide*. In large open areas, use a lens opening 1-stop larger.

Blue flashbulbs are recommended for use with this film; they permit you to use one type of flashbulb for both black-and-white and color photography. With clear flashbulbs, use a lens opening $\frac{1}{2}$ -stop smaller.

Use fresh photoflash batteries in the flash holder. Weak batteries or batteries that have been stored for a long time cause flash failures.

GUIDE NUMBERS FOR BLUE FLASHBULBS

SYN-CHRONIZATION	REFLECTOR TYPE	FLASH-CUBE	AG-1B	AG-1B M2B	AG-1B M2B	M3B 5B M5B 25B	M3B 5B M5B 25B	6B† 26B†
		SHUTTER SPEED	110	70	100	140	—	—
F or X	1/30	110	70	100	140	—	—	—
M	1/30	80	—	—	—	130	180	—
	1/60	75	—	—	—	110	160	140
	1/125	60	—	—	—	100	140	90
	1/250	50	—	—	—	80	110	55

*Polished Bowl. †Bulbs for focal-plane shutters.

Caution: Since bulbs may shatter when flashed, the use of a flashguard or similar shield over the reflector is recommended. *Do not flash bulbs in an explosive atmosphere.*

Electronic Flash: This table is for use with equipment rated in beam candlepower-seconds (BCPS) or effective candlepower-seconds (ECPS).

GUIDE NUMBERS FOR ELECTRONIC FLASH

Output of Unit (BCPS) or (ECPS)	350	500	700	1000	1400	2000	2800	4000	5600	8000
Guide Number for Trial	45	55	65	80	95	110	130	160	190	220

FILTERS

When a filter is used, increase the normal exposure by the factor indicated below:

Filters	K1 (No. 6)	K2 (No. 8)	X1 (No. 11)	G (No. 15)	A (No. 25)
Daylight	1.5	2*	4	2.5	8
Tungsten	1.5	1.5	4*	1.5	5

*For correct gray-tone rendering of colored objects.

DEVELOPMENT

Develop in total darkness. However, a KODAK Safelight Filter, WRATTEN Series 3 (dark green), in a suitable safelight lamp with a 15-watt bulb can be used for a few seconds after development is 50 percent completed, provided it is kept at least 4 feet from the film.

To open the 135 magazine, hold the magazine with the long end of the spool down and use a lid lifter or hook-type bottle opener to lift the upper end cap off the magazine.

Develop for times given below:

KODAK Packaged Developers	Developing Times (in Minutes)									
	SMALL TANK—(Agitation at 30-Second Intervals)					LARGE TANK—(Agitation at 1-Minute Intervals)				
	65 F	68 F	70 F	72 F	75 F	65 F	68 F	70 F	72 F	75 F
HC-110 (Dilution A)*	2 3/4	2 1/2	2 1/4	2	1 3/4	3	2 3/4	2 1/2	2 1/4	2
HC-110 (Dilution B)*	4	3 1/2	3 3/4	3	2 1/2	4 1/2	4	3 3/4	3 1/2	3
POLYDOL	8	7	6 1/2	6	5	9	8	7 1/2	7	6
MICRODOL-X	11	9	8	7	6	12	10	9	8	7
MICRODOL-X (1:3)†	—	—	13	12	11	—	—	15	14	13
D-76 (1:1)	10	8	7	6	5	11	9	8	7	6

*Dilution A is equivalent to a 1:15 dilution of the concentrate; Dilution B is equivalent to a 1:31 dilution of the concentrate.

†For greatest sharpness (see developer instructions).

Note: Do not use developers containing silver halide solvents.

Rinse in KODAK Indicator Stop Bath or KODAK Stop Bath SB-5, at 65 to 75 F, for 30 seconds with agitation. A running-water rinse can be used if an acid rinse bath is not available.

Fix in KODAK Fixer or KODAK Fixing Bath F-5 at 65 to 75 F for 5 to 10 minutes or in KODAK Rapid Fixer or KODAFIX Solution for 2 to 4 minutes with agitation.

Wash the film at 65 to 75 F for 20 to 30 minutes in running water. To minimize drying marks, treat in KODAK PHOTO-FLO Solution after washing, or wipe surfaces carefully with a KODAK Photo Chamois or a soft viscose sponge.

KODAK Hypo Clearing Agent can be used after fixing to reduce washing time and conserve water. First, remove excess hypo by rinsing the film in water for 30 seconds. Then bathe the film in the KODAK Hypo Clearing Agent solution for 1 or 2 minutes, with moderate agitation, and wash it for 5 minutes, using a water flow sufficient to give at least one complete change of water in 5 minutes.

Note: For best results, keep temperatures of rinse, fix, and wash close to the developer temperature.

Dry in a dust-free place.

INFORMATION

For additional information, ask your photo dealer to show you the many KODAK books and guides dealing with all phases of picturetaking.

NOTICE

This film will be replaced if defective in manufacture, labeling, or packaging, even though caused by our negligence or other fault. Except for such replacement, the sale or any subsequent handling of this film is without other warranty or liability.

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