

# KODAK DIRECT POSITIVE PANCHROMATIC FILM 5246

This is a medium-speed, extremely fine grain, panchromatic film designed for reversal processing to produce 35 mm black-and-white transparencies. This film is well suited for copying prints, other halftones, lantern slides, and it can be used for indoor and outdoor picture-taking.

**Safelight:** Total darkness until bleaching is completed; thereafter a KODAK Safelight Filter OA (greenish yellow) in a suitable safelight lamp with a 15-watt bulb can be used at 4 feet from the film. Do not inspect the film with white light until fixed completely, or veiled highlights may result.

## Exposure

**Speed:** Daylight—80 Tungsten—64

These speeds are recommended for meters marked for ASA Speeds. Normally they provide a safety factor in exposure when the film is processed exactly as recommended; temperature, time, and agitation are particularly important.

**For Copying:** These speeds are for trial exposures. They apply to *incident-light meters* directly and to *reflected-light meters* used with the KODAK Neutral Test Card (18% gray side) at the copyboard. A matte white card will serve, in which case use one-fifth the above, e.g., 12, as the tungsten value.

Allow for the increase in effective *f*-number caused by extended bellows.

**Filter Factors:** Increase normal exposure by filter factor given below:

KODAK WRATTEN Filter	No. 8	No. 15	No. 11	No. 13	No. 25	No. 58	No. 47	No. 47B	Polarizing Screen
Daylight	2*	2.5	4	4	10	5	8	10	2.5
Tungsten	1.5	2	3*	5	5	5	16	20	2.5

\*For correct gray-tone rendering of colored objects.

**Daylight Exposure Table:** Lens opening at 1/100 or 1/125 second.

Bright or Hazy Sun on Light Sand or Snow	Bright or Hazy Sun* (Distinct Shadows)	Weak, Hazy Sun (Soft Shadows)	Cloudy Bright (No Shadows)	Open Shade† or Heavy Overcast
Between $f/16$ & $f/22$	Between $f/11$ & $f/16$	Between $f/8$ & $f/11$	Between $f/5.6$ & $f/8$	Between $f/4$ & $f/5.6$

\*For backlighted subjects, increase exposure by 2 full stops (use lens opening between  $f/5.6$  &  $f/8$ ).  
†Subject shaded from sun but lighted by a large area of sky.

**Photoflood Exposure Table:** Two No. R2 reflector flood lamps, or two No. 2 photofloods in 12-inch average reflectors, giving comparable light output.

Side Light-to-Subject Distance	3½ ft	4½ ft	6 ft	9 ft	10 ft	13 ft
Camera Light-to-Subject Distance	4½ ft	6 ft	9 ft	13 ft	14 ft	18 ft
Lens Opening at 1/25 sec	$f/11$	$f/8$	$f/5.6$	$f/4$	$f/3.5$	$f/2.8$

**Flash Exposure Guide Numbers:** To get *f*-number, divide guide number by flash-to-subject distance in feet, taken to a point midway between nearest and farthest details of interest. In small white rooms, use one stop smaller.

**GUIDE NUMBERS FOR BLUE FLASHBULBS**

Between-Lens Shutter Speed	Syn-chroni-zation	Flash-cube	AG-1B*	M2B†	M3B‡ 5B‡ 25B‡	2B§ 22B§	Focal-Plane Shutter Speed	6B§ 26B§
Open	X or F	90	130	120	180	230	1/25-1/30	170
1/25-1/30		M	60	90	NR¶	180	1/50-1/60	130
1/50-1/60		M	60	90	NR¶	160	1/100-1/125	90
1/100-1/125		M	50	75	NR¶	130	1/200-1/250	60
1/200-1/250		M	40	65	NR¶	105	1/400-1/500	45

Bowl-Shaped Polished Reflectors: \*2-inch; †3-inch; ‡4- to 5-inch; §6- to 7-inch. All guide numbers are for bowl-shaped, polished reflectors; they do not apply to other shapes of reflectors. For shallow cylindrical reflectors, divide these guide numbers by 2. For intermediate-shaped reflectors (such as the shallow fan-shaped reflector), divide these guide numbers by 1.4. ¶NR=Not Recommended.

**Clear Bulbs:** If you use clear flashbulbs instead of blue bulbs, decrease lens opening 1/2 stop.

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

**Processing**

The film must be processed by a special procedure, for which packaged chemicals are supplied under the name "KODAK Direct Positive Film Developing Outfit." At 68°F (20°C) the processing steps are as follows:

- |   |                                    |
|---|------------------------------------|
| 1. First Developer . . . . . 6 to 9 minutes | 5. Redeveloper . . . . . 8 minutes |
| 2. Rinse . . . . . 2 to 5 minutes*          | 6. Water Rinse . . . . . 1 minute  |
| 3. Bleach . . . . . 1 minute                | 7. Fixing Bath . . . . . 5 minutes |
| 4. Clearing Bath . . . . . 2 minutes†       | 8. Wash . . . . . 20 minutes‡      |

The time in the first developer must be adjusted to the effective rate of development obtained with the apparatus and the degree of agitation employed.

\*A two-minute time is sufficient with a running-water wash and thorough agitation.  
 †Time in excess of 2 minutes should be avoided because of the tendency of this bath to dissolve the silver halide with consequent loss of density in the positive image.  
 ‡KODAK Hypo Clearing Agent may be used, if desired, to shorten wash time and conserve water. Use as directed on the label.

For more detailed information on processing, write for a copy of *Small Batch Reversal Processing of KODAK Black-and-White Films* (Kodak Pamphlet No. J-6) from Department 412-L, Eastman Kodak Company.

**Rolls Available:** No. 402—100 feet 35mm, perforated and frame numbered.

**Storage:** Keep unexposed film at 70°F (21°C) or lower.

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



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