

KODAK TRI-X PAN FILM IN ROLLS

6043

FILM SPEED
ISO (ASA) 400

This high-speed, fine-grain film with very high sharpness is especially useful for dimly lighted subjects and fast action, for extending the distance range for flash pictures, and for photographing subjects requiring good depth of field and high shutter speeds. Use this film in cameras with adjustable shutter speeds and lens openings.

Handling: Load and unload camera in subdued light.

DAYLIGHT PICTURES • Set your exposure meter or automatic camera at ISO (ASA) 400. If negatives are consistently too light, increase exposure by using a lower film-speed number; if too dark, reduce exposure by using a higher number.

If you don't have a meter or an automatic camera, use the exposures for the appropriate lighting conditions in the table below.

| DAYLIGHT EXPOSURE TABLE FOR KODAK TRI-X PAN FILM | | | | |
|--|---------------------------------------|----------------------------|----------------|-------------|
| Shutter Speed 1/500 Second | Shutter Speed 1/250 Second | | | |
| Bright or Hazy Sun on Light Sand or Snow | Bright or Hazy Sun (Distinct Shadows) | Cloudy Bright (No Shadows) | Heavy Overcast | Open Shade† |



| | | | | |
|------|-------|------|-----|-----|
| f/22 | f/22* | f/11 | f/8 | f/8 |
|------|-------|------|-----|-----|

* f/11 at 1/250 second for backlit close-up subjects.
† Subject shaded from the sun but lighted by a large area of sky.

FLASH PICTURES • Blue flash: Determine the f-number for average subjects by dividing the guide number for your reflector and flashbulb by the distance in feet from the flash to your subject. If negatives are consistently too light, increase exposure by using a lower guide number; if too dark, reduce exposure by using a higher guide number.

| GUIDE NUMBERS FOR BLUE FLASH | | | | | | |
|------------------------------|--------------------|---------------|-------------------|------|-------|-------|
| Reflector | Flashbulb | Shutter Speed | | | | |
| | | X Sync | M Synchronization | | | |
| | | 1/30 | 1/30 | 1/60 | 1/125 | 1/250 |
| | Flashcube | 180 | 120 | 120 | 100 | 75 |
| | HI-POWER FlashCube | 260 | 170 | 170 | 140 | 110 |
| | AG-1B | 130 | 90 | 90 | 75 | 65 |
| | M2B | 170 | NR | NR | NR | NR |
| | AG-1B | 180 | 130 | 130 | 110 | 90 |
| | M2B | 240 | NR | NR | NR | NR |
| | M3B, 5B, 25B | 260 | 240 | 220 | 180 | 150 |
| | 6B†, 26B† | NR | 260 | 180 | 120 | 85 |
| | M3B, 5B, 25B | 360 | 340 | 320 | 260 | 220 |
| | 6B†, 26B† | NR | 360 | 260 | 170 | 120 |

* Polished bowl. †Bulbs for focal-plane shutter. NR—Not Recommended.

WARNING: Bulbs may shatter when flashed; use flashguard over reflector. Do not use flash in an explosive atmosphere. See flashbulb manufacturer's instructions.

ELECTRONIC FLASH • Use this table with electronic flash units rated in beam candlepower seconds (BCPS). To determine the f-number, divide guide number for your flash unit by the distance in feet from the flash to your subject.

| Output of Unit BCPS | 350 | 500 | 700 | 1000 | 1400 | 2000 | 2800 | 4000 | 5600 | 8000 |
|---------------------|-----|-----|-----|------|------|------|------|------|------|------|
| Guide Number | 85 | 100 | 120 | 140 | 170 | 200 | 240 | 280 | 340 | 400 |

FILTERS • When you use a filter, increase the normal exposure by the factor indicated in the table. However, if your camera has a built-in exposure meter that makes the reading through a filter used over the lens, see your camera manual for instructions on exposure with filters.

| Filter | No. 6 | No. 8 | No. 11 | No. 15 | No. 25 | Polarizing Screen |
|-------------------|-------|-------|--------|--------|--------|-------------------|
| Daylight Tungsten | 1.5 | 2* | 4 | 2.5 | 8 | 2.5 |
| | 1.5 | 1.5 | 3* | 1.5 | 5 | 2.5 |

* For correct gray-tone rendering of colored objects.

EXISTING-LIGHT PICTURES • If you don't have an exposure meter or automatic camera, try the settings in the table.

| Picture Subject and Lighting | Shutter Speed | Lens Opening |
|--|---------------|--------------|
| Home Interior at Night— Areas with Bright Light Areas with Average Light | 1/30 | f/2.8 |
| | 1/30 | f/2 |
| | 1/60 | f/4 |
| Interiors with Bright Fluorescent Light | 1/60 | f/4 |
| Indoor, Outdoor Christmas Lighting at Night | 1/15* | f/2 |
| Brightly Lighted Street Scenes at Night | 1/60 | f/2.8 |
| Neon Signs, Other Lighted Signs at Night | 1/125 | f/4 |
| Store Windows at Night | 1/60 | f/4 |
| Floodlighted Buildings, Fountains, Monuments | 1/15* | f/2 |
| Fairs, Amusement Parks at Night | 1/30 | f/2.8 |
| Night Football, Baseball, Racetracks | 1/125 | f/2.8 |
| Basketball, Hockey, Bowling | 1/125 | f/2 |
| Stage Shows—Average Lighting (bright lighting 2 stops less) | 1/60 | f/2.8 |
| Circuses—Floodlighted Acts | 1/60 | f/2.8 |
| Ice Shows—Floodlighted Acts | 1/125 | f/2.8 |
| Ice Shows, Circuses—Spotlighted Acts | 1/250 | f/2.8 |
| School—Stage and Auditorium | 1/30 | f/2 |

* Use a camera support for exposure times longer than 1/30 second.

PROCESSING • Take exposed film to photo dealer for developing and printing. To process film yourself, follow these instructions:

Handle in Total Darkness. However, when development is half completed, you can use a safelight at 4 feet from the film for a few seconds. Equip the safelight with a KODAK Safelight Filter No. 3 (dark green) and a 15-watt bulb.

Develop for the times suggested below. If your negatives are consistently too low in contrast, increase development time; if too high in contrast, decrease development time. The most widely used times and temperatures are in heavy type.

| Kodak Packaged Developers | DEVELOPING TIMES IN 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 | 65°F 18°C | 68°F 20°C | 70°F 21°C | 72°F 22°C | 75°F 24°C |
| HC-110 (Dilution B) | 8½ | 7½ | 6½ | 6 | 5 | 9½ | 8½ | 8 | 7½ | 6½ |
| D-76 | 9 | 8 | 7½ | 6½ | 5½ | 10 | 9 | 8 | 7 | 6 |
| D-76 (1:1) | 11 | 10 | 9½ | 9 | 8 | 13 | 12 | 11 | 10 | 9 |
| MICRODOL-X | 11 | 10 | 9½ | 9 | 8 | 13 | 12 | 11 | 10 | 9 |
| MICRODOL-X (1:3) | — | — | 15 | 14 | 13 | — | — | 17 | 16 | 15 |
| POLYDOL | 8 | 7 | 6½ | 6 | 5 | 9 | 8 | 7½ | 7 | 6 |
| DK-50 (1:1) | 7 | 6 | 5½ | 5 | 4½ | 7½ | 6½ | 6 | 5½ | 5 |
| HC-110 (Dilution A) | 4½ | 3½ | 3½ | 3 | 2½ | 4½ | 4 | 4 | 3½ | 3½ |

NOTE: Do not use developers containing silver halide solvents.
* Unsatisfactory uniformity may result with development times shorter than 5 minutes.
† Usually one-quart size or smaller.

Rinse in KODAK Indicator Stop Bath or KODAK Stop Bath SB-5, or equivalent at 65 to 75°F (18 to 24°C), for 30 seconds with agitation. You can use a running-water rinse if an acid stop bath is not available.

Fix in KODAK Fixer, KODAK Fixing Bath F-5, or equivalent or KODAFIX Solution for 5 to 10 minutes, or KODAK Rapid Fixer for 2 to 4 minutes, at 65 to 75°F (18 to 24°C) with agitation.

Wash the film for 20 to 30 minutes in running water at 65 to 75°F (18 to 24°C). To minimize drying marks, treat in KODAK PHOTO-FLO Solution or equivalent after washing, or wipe surfaces carefully with a KODAK Photo Chamois or a soft viscose sponge.

You can use KODAK Hypo Clearing Agent 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 to 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: Keep temperatures of rinse, fix, and wash close to developer temperature.

Dry in a dust-free place.

MORE INFORMATION: If you have questions about this film, write to Kodak, Dept. 841C, at the address below. See the many Kodak books for sale by your photo dealer.

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.



Consumer/Professional & Finishing Markets
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