

## KODAK High Contrast Copy Film 5069

- A high-contrast panchromatic film for making reduced (35 mm or smaller) copy negatives from black-and-white or color originals of drawings, printed matter, maps, and similar originals.
- Provides excellent sharpness, even at very high enlarging magnifications.
- Yields good quality results in copying originals containing both line and halftone material, such as catalog pages, magazines, and similar matter.

**NOTE:** Unlike many 35 mm films, KODAK High Contrast Copy Film 5069 has a clear (not gray) base. Therefore, do not increase the background density of line negatives to that obtained with gray-base films; otherwise, some loss of sharpness may result.

**Safelight:** Handle and process the film in total darkness. However, after development is half-completed, a KODAK Safelight Filter No. 3 (dark green) in a suitable safelight lamp with a 15-watt bulb can be used for a few seconds only. Keep the safelight at least 4 feet from the film.

### Exposure

**Meter Settings:** For exposure meters marked for ASA speeds or exposure indexes.

Tungsten—64 (for incident-light readings and for reflected-light readings from gray card—18-percent reflectance—at the copyboard).

Tungsten—12 (for reflected-light readings from matte white card—90-percent reflectance—at the copyboard).

These meter settings are intended as starting points for making a series of trial exposures to determine the best exposure for a given copying setup. With the meter setting 64, take a reflected-light reading from a gray card (18-percent reflectance) at the copyboard. Then, with the indicated exposure as a starting point, make a series of tests at different exposures. After developing the film, choose the negative that prints best on the paper you intend to use. If a white card (90-percent reflectance) is used at the copyboard, start with the exposure indicated by the meter setting 12. Note that reflected-light readings should not be made directly from the copy.

**NOTE:** The effective speed of this film may be changed by the use of developers and developing conditions different from those given in the table below.

**Copyboard Illumination:** For originals measuring 11 x 14 inches or smaller, even illumination of the copyboard can be achieved with two lamps, one on either side of the copy. Set the lamps at an angle of about 45° to the lens axis. For large originals, four lamps (two on either side of the copy) provide more even illumination.

**Exposure Examples:** As an alternative to using an exposure meter to determine exposures, the following examples can be used as starting points to obtain correct exposure: with two No. 2 photolamps in matte-surfaced reflectors at about 24 inches from the copyboard, give ¼ second at *f*/22. With two No. 1 photolamps, exposures will be approximately twice that needed with No. 2 photolamps.

**NOTE:** If the lens-to-film distance is greater than the focal length of the lens, as might be the case in using extension tubes or auxiliary bellows attachments on a 35 mm camera, more exposure is needed to compensate for the extra distance. For more information about copying, refer to the Kodak Publication No. M-1, *Copying*.

**Filter Factors:** Usually, a filter will not be required to achieve the desired contrast between background and subject matter. In special cases, such as copying material from old newspapers or books with yellowed paper, you can use a KODAK WRATTEN Filter No. 8 or No. 15. For copying blueprints, use a No. 25 Filter.

When a filter is used, multiply the normal exposure by the filter factor given below:

Light Source	KODAK WRATTEN filter		
	No. 8	No. 15	No. 25
Tungsten	1.2	1.5	8

### Processing

#### 1. Develop:

KODAK Packaged Developer	Developing Times (in Minutes)				
	SMALL TANK—(Agitation at 30-Second Intervals)				
	65°F 18°C	68°F 20°C	70°F 21°C	72°F 22°C	75°F 24°C
D-19	7	6	5	4½	4

**2. Rinse** in KODAK Stop Bath SB-5a or equivalent at 65 to 75°F (18–24°C) for about 30 seconds with agitation.

**3. Fix** at 65 to 75°F (18–24°C).  
 KODAK Fixer —2 to 4 minutes  
 or KODAK Fixing Bath F-5 —2 to 4 minutes  
 or KODAK Rapid Fixer —1 to 2 minutes  
 or their equivalent  
 Agitate films frequently during fixing.

**4. Wash** for at least 20 minutes in running water at 65 to 75°F (18 to 24°C). To minimize drying marks, you can treat in KODAK PHOTO-FLO Solution after washing, or wipe surfaces carefully with a KODAK Photo Chamois or a soft, wet viscose sponge. To save time and conserve water, you can use KODAK Hypo Clearing Agent.

**5. Dry** in a dust-free place.

**Forms Available:** KODAK High Contrast Copy Film 135 in 36-exposure magazines (HC135-36); and 35 mm, perforated, not frame-numbered, 50 feet on No. 162 spools (HC710).

**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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