

EASTMAN High Contrast Panchromatic Film 5369, 2369, 3369



EASTMAN High Contrast Panchromatic Film 5369 and EASTMAN High Contrast Panchromatic Film 2369, 3369 / ESTAR Base are high-contrast, panchromatic films. They have ultra-high resolving power, with excellent definition and sharpness. The films are approximately 2 camera stops faster than EASTMAN Fine Grain Release Positive Film 5302. The primary use of these films is for making silhouette mattes and traveling mattes for printer control.

BASE

EASTMAN High Contrast Panchromatic Film 5369 has a clear acetate safety base with an antihalation undercoat.

EASTMAN High Contrast Panchromatic Film 2369 and 3369 have an ESTAR Safety Base.

DARKROOM RECOMMENDATIONS

Process this film in total darkness. After development is 50 percent completed, a KODAK No. 3 Safelight Filter / dark green may be used with a 15-watt bulb, no closer to the film than 1.2 metres (4 feet).

STORAGE

Store *unexposed* film at 13° C (55° F) or lower. For extended storage, store at -18° C (0° F) or lower. Process *exposed* film promptly. Store *processed* film according to the recommendations in ANSI/PIMA IT9.11-1998: for medium-term storage (minimum of ten years), store at 25° C (77° F) or lower at a relative humidity of 20 to 50 percent; for extended-term storage (for preservation of material having permanent value), store at 21° C (70° F) or lower at a relative humidity of 20 to 30 percent. For active use, store at 25° C (77° F) or lower, at a relative humidity of 50 +/- 5 percent. This relates to optimized film handling rather than preservation; static, dust-attraction and curl-related problems are generally minimized at the higher relative humidity. After usage, the film should be returned to the appropriate medium- or long-term storage conditions as soon as possible.

For more information about medium- and long-term storage, see ANSI/PIMA IT9.11-1998, SMPTE RP131-1998, and KODAK Publications No. H-1, *KODAK Motion Picture Film* and No.H-23, *The Book of Film Care*.

RECIPROCITY

Over an exposure time range of 1/100 to 1 second, no exposure adjustment is necessary. At 1/1000 second, increase exposure by 1/3 stop.

PROCESSING

The following process recommendations should be used as starting points for most conventional continuous-immersion processors with solutions prepared according to the formulas in KODAK Publication No.H-24.15, *Manual for Processing KODAK Motion Picture Films, Module 15*. The processing times may require modification for a particular machine.

Notice: Observe precautionary information on product labels and on the Material Safety Data Sheets.

Processing Step	Temperature °C (°F)	Time (min: sec)	Replenishment Rate (mL per 100 ft)	
			35 mm	16 mm
KODAK Developer D-97 ¹	21 +/- 0.3 (70 +/- .05)	3:30	650 (D-97R)	325 (D-97R)
Stop Rinse ²	21 +/- 1 (70 +/- 2)	0:50	12,000	6000
KODAK Fixing Bath F-5 ¹	21 +/- 1 (70 +/- 2)	9:00	600	300
Wash (counter-current)	21 +/- 1 (70 +/- 2)	10:00	12,000	6000
Dry	35 (95)	3	—	—

¹ Agitation in the developer and fixing bath should be by recirculation through submerged spray jets that impinge on the film strands.

² Countercurrent flow of fixer-laden water overflow from the wash tank, pH about 6.

³ Many factors affect the drying: air temperature, relative humidity (RH); volume, rate and distribution of the air flow; final squeegeeing, etc. In a typical convection-type drying cabinet with air at about 35° C (95° F) and 40- to 50-percent RH, drying will take 15 to 20 minutes. With an impingement-type drying cabinet, however, with a higher temperature and lower RH, drying time is greatly reduced. With either type of dryer, the film will dry without tackiness 1/2 to 2/3 of the way through. Film leaving the drying cabinet when it has reached room temperature should be at equilibrium with the room air at approximately 50-percent RH.

IMAGE STRUCTURE

The modulation-transfer curves, the diffuse rms granularity, and the resolving-power data were generated from samples of 5369 Film exposed with tungsten light and processed as recommended in KODAK Developer D-97 at 21° C (70° F) for 3 1/2 minutes. For more information on image-structure characteristics, see KODAK Publication No H-1, *KODAK Motion Picture Film*.

Diffuse rms Granularity¹

Granularity = 6.0

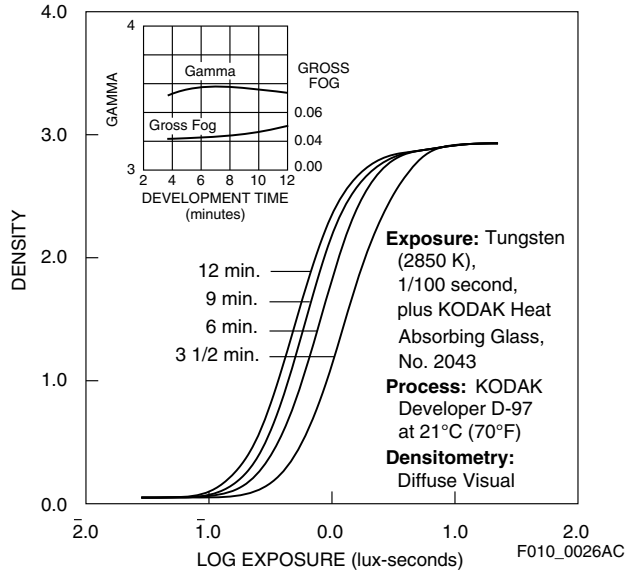
1. Read at a net diffuse visual density of 1.0, using a 48-micrometre aperture

Resolving Power ²

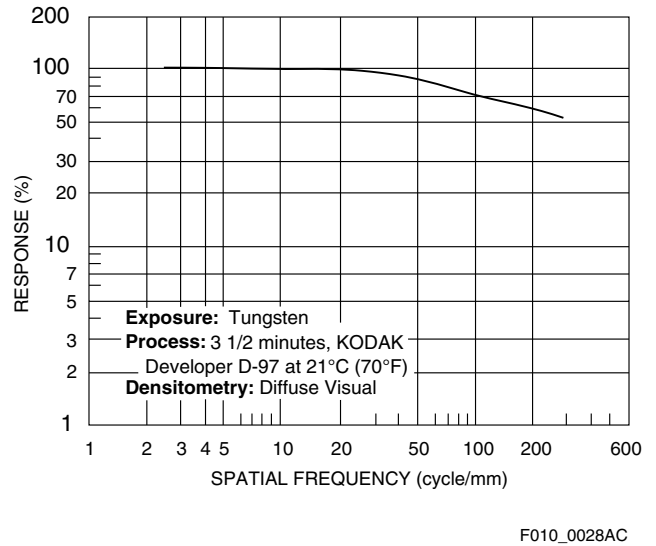
ISO RPL	250 lines/mm	(TOC 1.6:1)
ISO RP	630 lines/mm	(TOC 1000:1)

CURVES

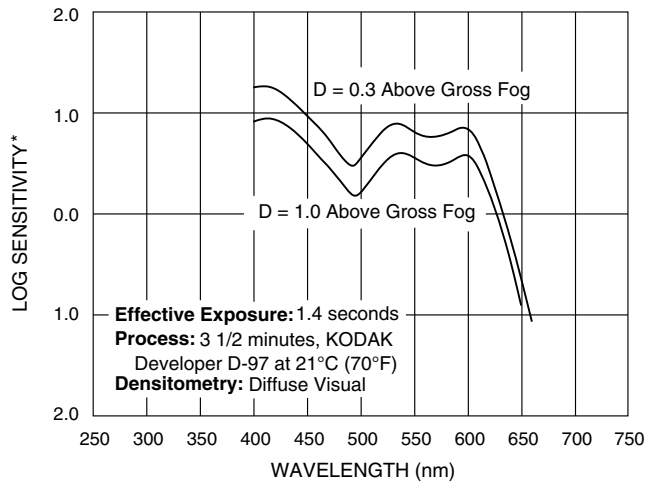
Characteristic Curves



Modulation-Transfer Curve



Spectral-Sensitivity Curves



*Sensitivity = reciprocal of exposure (ergs/cm²) required to produce specified density

F010_0027AC

NOTICE: The sensitometric curves and data in this publication represent product tested under the conditions of exposure and processing specified. They are representative of production coatings, and therefore do not apply directly to a particular box or roll of photographic material. They do not represent standards or specifications that must be met by Eastman Kodak Company. The company reserves the right to change and improve product characteristics at any time.

2. Determined according to a method similar to the one described in ISO 6328-1982, Photography—Photographic Materials—Determination of ISO Resolving Power.

AVAILABLE ROLL LENGTHS

For information on film roll lengths, check Kodak's *Professional Motion Imaging Price Catalog* or see a Kodak sales representative in your country.

MORE INFORMATION

For assistance, call the Kodak Information Center in the U.S. at 1-800-242-2424 Monday through Friday between 9 a.m. and 7 p.m. (Eastern time); or in Canada at 1-800-465-6325 between 8:30 a.m. and 5 p.m. (Eastern time).

To order the publications below, call 1-800-233-1650 between 8 a.m. and 7 p.m. Eastern Time.

Outside the United States and Canada, please contact your Kodak representative.

You can also visit our web site at **www.kodak.com/go/motion** for further information. You may want to bookmark our location so you can find us easily the next time.

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