

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)	6:00	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

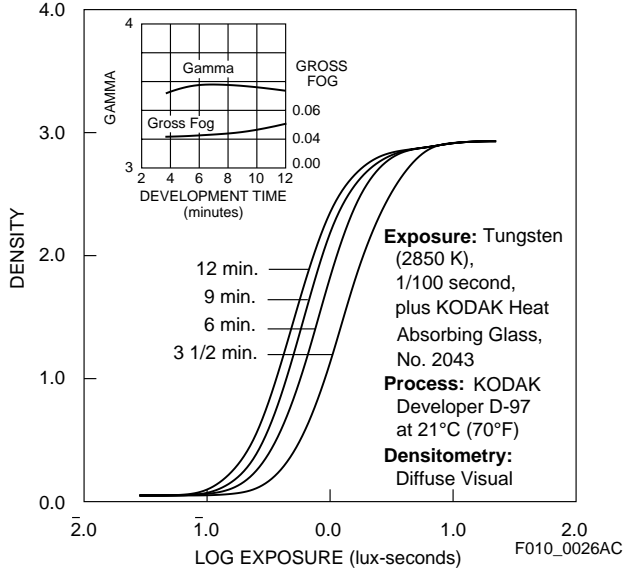
¹ Read at a net diffuse visual density of 1.0, using a 48-micrometre aperture

Resolving Power ²

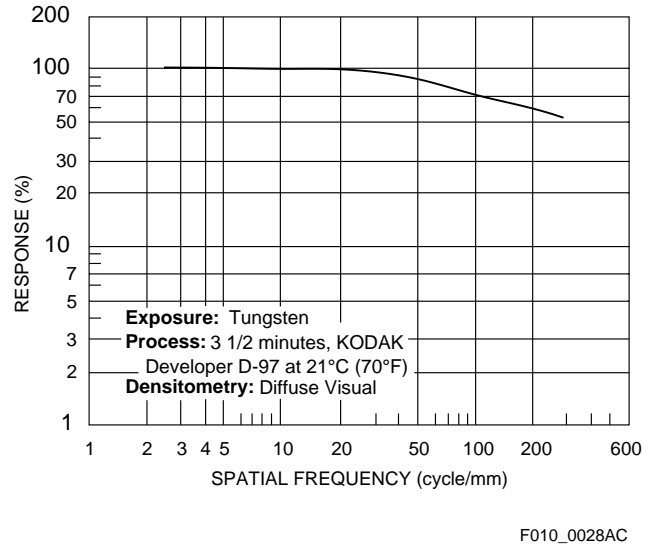
ISO RPL	250 lines/mm	(TOC 1.6:1)
ISO RP	630 lines/mm	(TOC 1000:1)

CURVES

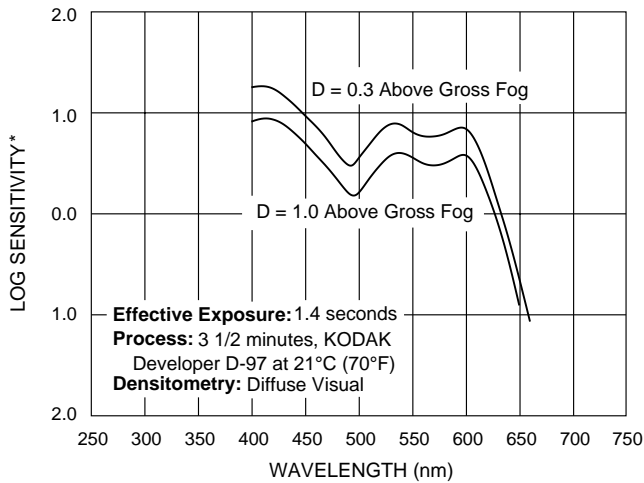
Characteristic Curves



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.

EASTMAN High Contrast Panchromatic Film 5369, 2369, 3369

KODAK Locations

CHICAGO, ILLINOIS

815 West Van Buren
Suite 320
Chicago, Illinois 60607
Information: 312-492-1421

DALLAS, TEXAS

11337 Indian Trail
Dallas, Texas 75229
Information: 972-481-1150
312-492-1421

HOLLYWOOD, CALIFORNIA

6700 Santa Monica Boulevard
Los Angeles, California
90038-1203
Information: 323-464-6131

NEW YORK, NEW YORK

360 West 31st Street
New York, New York
10001-2727
Information: 212-631-3450

LATIN AMERICAN REGION

8600 NW 17th Street
Suite 200
Miami, Florida 33126
Information: 305-507-5146

MONTREAL, CANADA

Kodak Canada, Inc.
4 Place du Commerce, Suite 100
Ile des Soeurs
Verdun, Quebec
Canada H3E 1J4
Information: 514-761-7001
Fax: 514-768-1563
Orders: 1-800-621-FILM (3456)
Fax Orders: 1-866-211-6311

TORONTO, CANADA

Kodak Canada Inc.
3500 Eglinton Avenue West
Toronto, Ontario
Canada M6M 1V3
Tel: 1-416-761-4922
1-800-621-FILM (3456)
Fax: 1-416-761-4948

VANCOUVER, CANADA

Kodak Canada, Inc.
4185 Still Creek Drive
Suite C150
Burnaby, British Columbia
Canada V5C 6G9
Tel: 1-800-621-FILM (3456)

EUROPEAN, AFRICAN, AND ME REGION

Eastman Kodak Company
Kodak Ltd. Kodak House
Hemel Hempstead
Herts, HP1 1JU England
Local: 01442-845-945
Fax: 01442-844-458

Eastman Kodak SA
29-31 Route de l'aeroport
Case postale 271
Le grand Sacconex, 1215
Geneve 15
Information: +41-22-747-2000
Fax: +41-22-747-2200

ASIA PACIFIC REGION

AUSTRALIA

61-3-8371-8520

CHINA (Peoples Republic)

Beijing: 8610-6561-6561
Shanghai: 8621-6350-0888
Guangzhou: 8620-8319-8888

HONG KONG

852-2564-9352

INDIA

91-22-652-6826

INDONESIA

62-21-570-5212

JAPAN

81-3-5644-5348

KOREA

82-2-708-5561

MALAYSIA

60-3-757-2722

NEW ZEALAND

64-9-302-8665

PAKISTAN

92-21-561-0150

PHILIPPINES

632-810-0331

SINGAPORE

65-476-9688

TAIWAN

886-2-2893-8108

THAILAND

66-2-271-3040 Ext. 310



Entertainment
Imaging