

EASTMAN Fine Grain Duplicating Positive Film 5366™ / 7366™



EASTMAN Fine Grain Duplicating Positive Film 5366 (35 mm) and 7366 (16 mm) is a low-speed duplicating film intended for making master positives from black-and-white camera negatives which, when printed onto EASTMAN Fine Grain Duplicating Panchromatic Negative Film 5234™ and 7234™, produces duplicate negatives that are only distinguishable from the originals by skilled observers. This blue-sensitive black-and-white film has very high resolution and incorporates a yellow dye, which is removed during processing, to provide very high acutance.

BASE

This film has a clear acetate safety base.

DARKROOM RECOMMENDATIONS

Handle unprocessed film in total darkness. If necessary, you can examine the film for *less than one minute*, using the following safelight combination: a 15-watt bulb and KODAK OA Safelight Filter (greenish-yellow), no closer than 1.2 metres (4 feet) to the film.

STORAGE

Store *unexposed film* at 13°C (55°F) or lower. Process *exposed film* promptly. Store processed film at 21°C (70°F) or lower at a relative humidity of 40 to 50 percent for normal commercial storage. For more information on long-term storage, see KODAK Publications No. H-1, *KODAK Motion Picture Film*, and No. H-23, *The Book of Film Care*.

EXPOSURE

For laboratories with subtractive printers, such as a Bell & Howell Model D Printer, these recommendations should be helpful as a starting point. Use a 500-watt tungsten lamp operating with a diffuser at a lamp setting of 75 volts. With a printer speed of 90 feet per minute and a diaphragm setting of 15, satisfactory master positives should be produced from original negatives of average density. (The maximum density of the negative image should produce a density of about 0.6 to 0.8 in the master positive, i.e., just above the lower end of the straight-line portion of the characteristic curve.)

PROCESSING

The following starting-point recommendations are for a typical continuous-immersion processing machine. formulas presented in KODAK Publication No.H-24, *Manual for Processing KODAK Motion Picture Films*, Module 1, for more information on solution formulas and procedures for machine processing.

Processing Step	Temperature	Time (min:sec)	Replenishment Rate (mL per 100 ft)	
			35 mm	16 mm
KODAK Developer D-96*	21°C ± 0.3 (70°F ± 0.5)	†	1,250 (D-96R)	625 (D-96R)
Stop Rinse‡	21°C ± 1 (70°F ± 2)	0:50	12,000	6,000
KODAK Fixing Bath F-5*	21°C ± 1 (70°F ± 2)	6:00	850	425
Wash (counter-current)	21°C ± 1 (70°F ± 2)	10:00	12,000	6,000
Dry§	35°C (95°F)	—	—	—

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

† Develop to recommended control gamma of 1.2 to 1.6 calculated using Status M densitometry (blue).

‡ Fixer-laden water from wash tank, pH about 6.

§ Drying depends on many factors such as air temperature, humidity, volume and rate of air flow, flow distribution pattern, final squeegeeing, etc. In a typical motion-picture film drying cabinet with air at about 35°C (95°F) and 40- to 50-percent relative humidity (RH), satisfactory drying will require 15 to 20 minutes. Film leaving the drying cabinet when it has reached room temperature should be at equilibrium with room air at approximately 50-percent RH.

IDENTIFICATION

After processing, the product code number 5366, emulsion and roll number identification, and internal product symbol (D) are visible along the length of the film.

IMAGE STRUCTURE

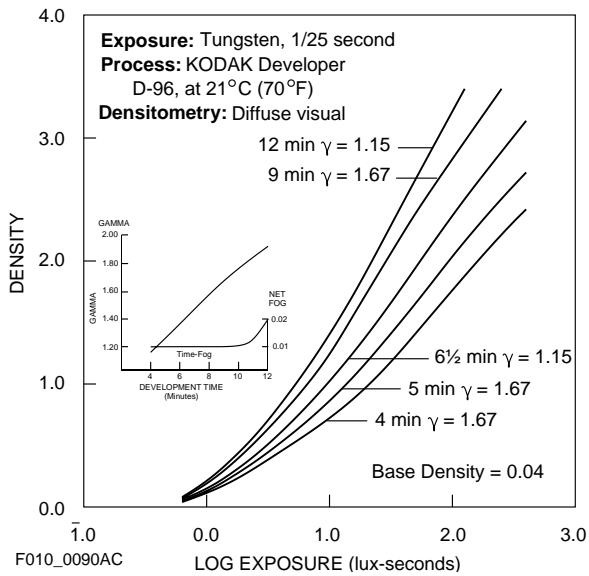
The modulation-transfer curve, rms granularity, and resolving-power data were generated from samples of EASTMAN Fine Grain Duplicating Positive Film exposed to tungsten light and processed in KODAK Developer D-96 at 21°C (70°F) to the recommended control gamma. For more information on image-structure characteristics, see KODAK Publication No H-1, *KODAK Motion Picture Film*.

Diffuse RMS Granularity*	9	
Resolving Power†	TOC 1.6:1	100 lines/mm
	TOC 1000:1	200 lines/mm

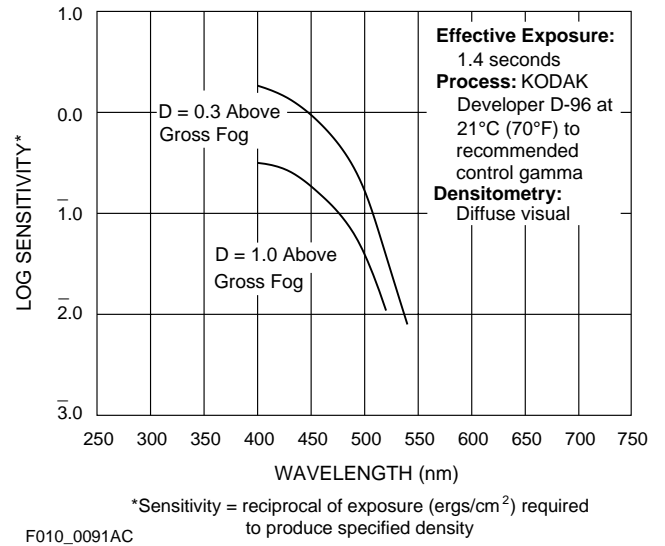
* Read at a net diffuse visual density of 1.0, using a 48-micrometre aperture.

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

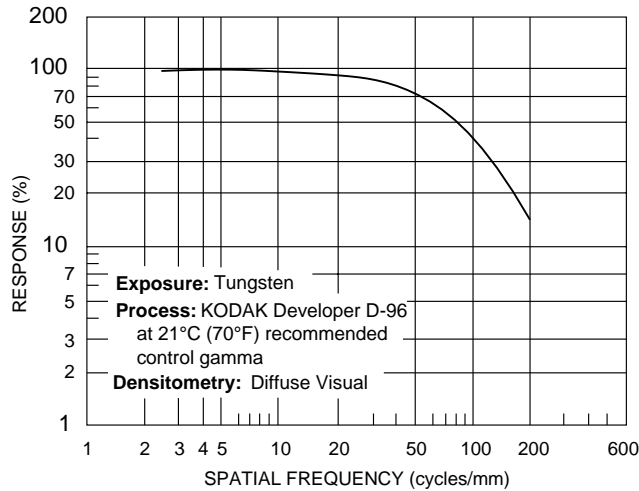
Characteristic Curves



Spectral-Sensitivity Curves



Modulation-Transfer Curve



Notice: While the data presented are typical of production coatings, they do not represent standards which must be met by Kodak. Varying storage, exposure, and processing conditions will affect results. The company reserves the right to change and improve product characteristics at any time.

These photographic modulation-transfer values were determined by using a method similar to the one described in ANSI Standard PH2.39-1977(R1990). The film was exposed with the specified illuminant to spatially varying sinusoidal test patterns having an aerial image modulation of a nominal 60 percent at the image plane, with processing as indicated. In most cases, these photographic modulation-transfer values are influenced by development-adjacency effects and are not equivalent to the true optical modulation-transfer curve of the emulsion layer in the particular photographic product.

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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.

KODAK LOCATIONS

FOR DIRECT ORDERING IN THE UNITED STATES:
1-800-621-FILM

ATLANTA, GEORGIA

4 Concourse Parkway
Suite 300
Atlanta, Georgia 30328-5379
Information: 800-800-8398

CHICAGO, ILLINOIS

815 West Van Buren, Suite 320
Chicago, Illinois 60607
Information: 312-492-1423

DALLAS, TEXAS

11337 Indian Trail
Dallas, Texas 75229
Information: 972-481-1150 or 312-492-1423

HOLLYWOOD, CALIFORNIA

6700 Santa Monica Boulevard
P. O. Box 38939
Hollywood, 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 REGIONAL OFFICE

8600 NW 17th Street, Suite 200
Miami, Florida 33126
Information: 305-507-5656

FOR DIRECT ORDERING IN CANADA:
1-800-621-FILM

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VANCOUVER, CANADA

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Burnaby, British Columbia, V5C 6G9, Canada
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KODAK On Line At:

<http://www.kodak.com/go/motion>



**Professional
Motion Imaging**