

# KODAK EKTACHROME 100D

## Color Reversal Film / 5285™



### DESCRIPTION

KODAK EKTACHROME 100D Color Reversal Film / 5285 is a 100-speed, high-color reversal motion picture camera film intended for photography under daylight illumination (5500 K). It offers strikingly saturated color performance while maintaining a neutral gray scale and accurate flesh reproduction. Film 5285 has exceptional sharpness that is unsurpassed by any other 100-speed reversal technology, and its grain performance is excellent. This film also offers very strong reciprocity uniformity and keeping stability.

Film 5285 offers outstanding results in outdoor and studio applications where strong color saturation is desired. It is excellent for advertising, nature cinematography, documentaries, music videos, and is especially good for telecine transfers and television filming. Color duplicates can be made using KODAK EKTACHROME Duplicating Film, and internegatives can be made on KODAK Commercial Internegative Film.

### BASE

Acetate safety base.

### DARKROOM RECOMMENDATIONS

Do not use a safelight. Handle unprocessed film in total darkness.

### 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 NAPM IT9.11-1992: for medium-term storage (minimum of ten years), store at 10°C (50°F) or lower at a relative humidity of 20 to 30 percent; for extended-term storage (for preservation of material having permanent value), store at 2°C (35°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 extended-term storage condition as soon as possible.

For more information about medium- and extended-term storage, see NAPM IT9.11-1992, and

KODAK Publications No. H-1, *KODAK Motion Picture Film* and No. H-23, *The Book of Film Care*.

### EXPOSURE INDEX

Daylight (5500 K) — 100 / Tungsten (3200 K) — 25 (with KODAK WRATTEN Gelatin Filter No. 80A).

Use these indexes with incident- or reflected-light exposure meters and cameras marked for ISO or ASA speeds or exposure indexes. These indexes apply for meter readings of average subjects made from the camera position or for readings made from a gray card of 18-percent reflectance held close to and in front of the subject. For unusually light- or dark-colored subjects, decrease or increase the exposure indicated by the meter accordingly.

### COLOR BALANCE

These films are balanced for exposure with daylight illumination (5500 K). For other light sources, use the correction filters in the table below.

LIGHT SOURCE	KODAK FILTERS ON CAMERA*	EXPOSURE INDEX
Daylight (5500 K)	None	100
Tungsten (3000 K)	WRATTEN Gelatin No. 80A	25
Tungsten (3200 K)	WRATTEN Gelatin No. 80A	25
Tungsten Photoflood (3400 K)	WRATTEN Gelatin No. 80A	25
White-Flame Arcs	Color Compensating CC20Y + CC10C	64
Yellow-Flame Arcs	WRATTEN Gelatin No. 80A	25
OPTIMA 32	WRATTEN Gelatin No. 80A	25
VITALITE	None	100
Fluorescent, Cool White	Color Compensating CC20M	80
Fluorescent, Deluxe Cool White	WRATTEN Gelatin No. 85C	80
Metal Halide (H.M.I.)	None	100

\* These are approximate corrections only.

**Note:** Consult the manufacturer of high-intensity ultraviolet lamps for safety information on ultraviolet radiation and ozone generation.

## EXPOSURE TABLE—DAYLIGHT ILLUMINATION

At 24 frames per second (fps), 170-degree shutter opening:

Lens Aperture	f/1.4	f/2	f/2.8	f/4	f/5.6	f/8	f/11
Footcandles Required	25	50	100	200	400	800	1600

## RECIPROCITY

You do not need to make any filter corrections or exposure adjustments for exposure times from 1/10,000 to 1 second.

## PROCESSING

Process this film in KODAK Chemicals, Process E-6, cine machine only.

**Note:** KODAK EKTACHROME 100D Color Reversal Film / 5285 contains special sensitizing and filter dyes that improve color reproduction. Because these dyes are designed to rinse out of the film during processing, they will change the color of the first developer, the reversal bath, the final wash, and the final rinse. This solution discoloration is only cosmetic. It will not affect sensitometry or the quality of any Process E-6 film or control material. However, the solutions will cause splicing tape and processing equipment (rollers, racks, etc.) to have a pinkish color. The pink dye residue can easily be washed off processing equipment by following the normal maintenance procedures.

## PRINTING

### Making Duplicates

To make color positive direct prints, use KODAK EKTACHROME Duplicating Film. Or, make internegatives on KODAK Commercial Internegative Film and print them on KODAK VISION Color Print Film / 2383 and KODAK VISION Premier Color Print Film / 2393.

## IDENTIFICATION

After processing, the product code number 5285 (35 mm), emulsion and roll number identification, KEYCODE numbers, and internal product symbol (EA) are visible along the length of the film.

## FILM-TO-VIDEO TRANSFERS

When you transfer the film directly to video, you can set up the telecine using the KODAK EKTACHROME Telecine Analysis Film (TAF) supplied by Eastman Kodak Company. The TAF consists of a neutral density scale and an eight-bar color test pattern with a LAD gray surround.

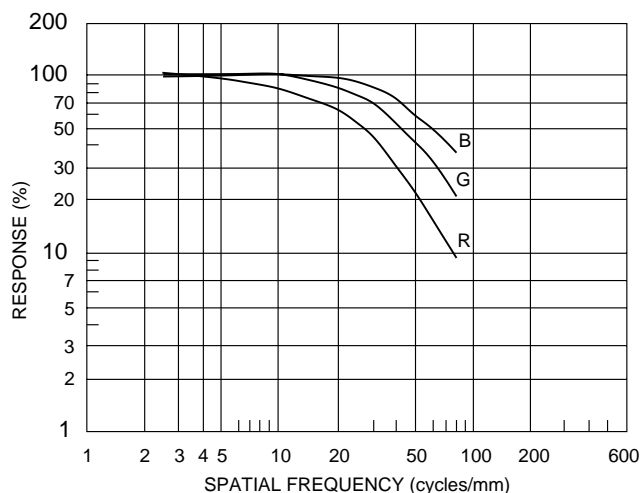
The TAF gray scale provides the telecine operator (colorist) with an effective way to adjust subcarrier balance and to center the telecine controls before timing and transferring a film. The TAF color bars provide the utility of electronic color bars, even though they do not precisely match the electronically generated color bars. Using the TAF will help obtain optimum quality and consistency in the film-to-video transfer. For more information regarding TAF, see KODAK Publication No. H-822, *KODAK Telecine Analysis Film User's Guide*.

## IMAGE STRUCTURE

The modulation-transfer curves, and the diffuse rms granularity data were generated from samples of Film 5285 exposed with tungsten light filtered to 5500 K and processed as recommended in Process E-6 chemicals.

## MODULATION-TRANSFER CURVES

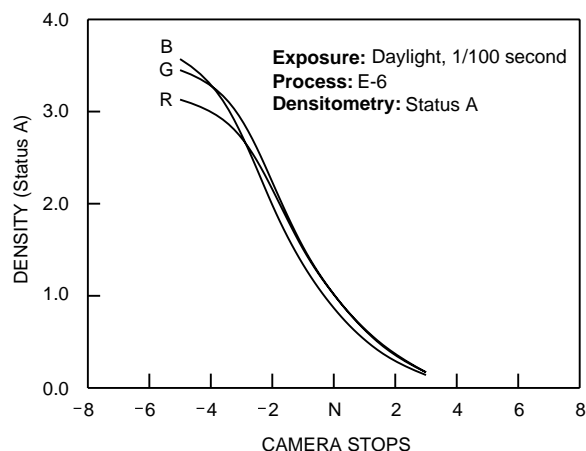
This graph shows a measure of the visual sharpness of the film. The x-axis, "Spatial Frequency," refers to the number of sine waves per millimetre that can be resolved. The y-axis, "Response," corresponds to film sharpness. The longer and flatter the line, the more the film can resolve, and therefore, the sharper the film.



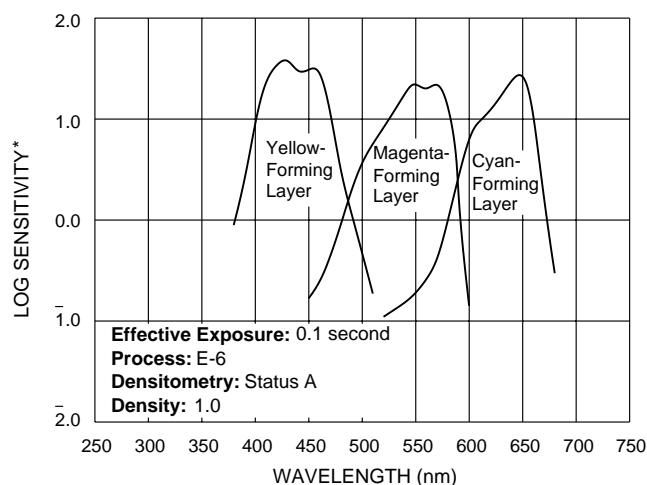
F002\_1043AC

**Note:** These photographic modulation-transfer values were determined by using a method similar to the one described in ANSI Standard PH2.39-1977(R1992). 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, the 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.

## CHARACTERISTIC CURVES



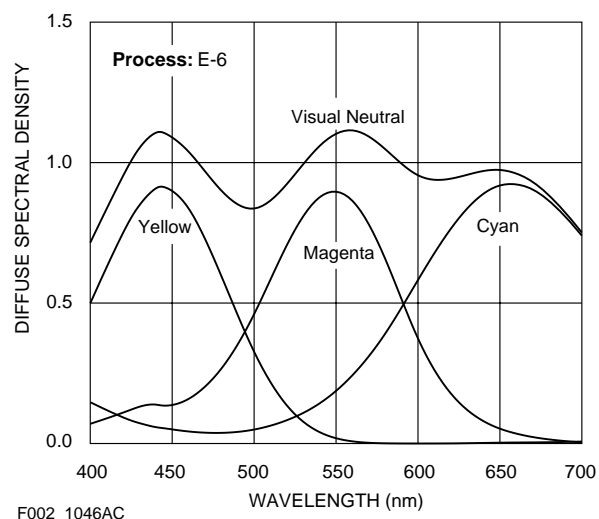
## SPECTRAL-SENSITIVITY CURVES



\*Sensitivity = reciprocal of exposure (ergs/cm<sup>2</sup>) required to produce specified density

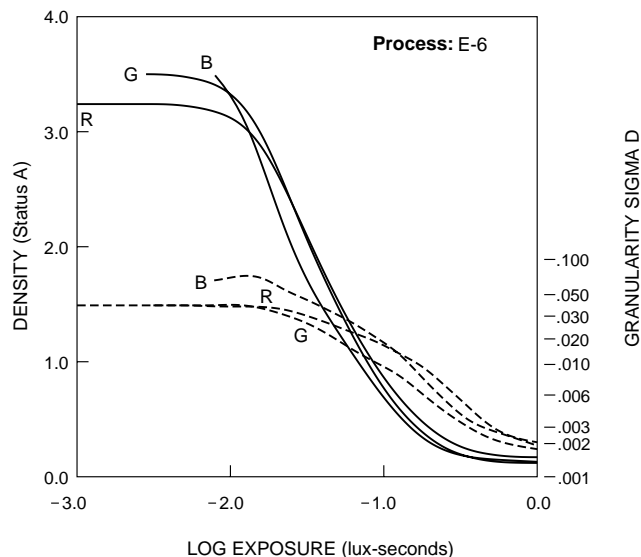
F002\_1045AC

## SPECTRAL DYE DENSITY CURVES



## GRANULARITY

To find the rms Granularity value for a given density, find the density on the left vertical scale and follow horizontally to the characteristic curve and then go vertically (up or down) to the granularity curve. At that point, follow horizontally to the Granularity Sigma D scale on the right. Read the number and multiply by 1000 for the rms value.



## STANDARD PRODUCTS AVAILABLE

KODAK EKTACHROME 100D Color Reversal Film / 5285			
Identification #	Length in Feet (Metres)	Description	Perforation
KCR727	400 (122)	On Core	BH-1866
KCR727	1000 (305)	On Core	BH-1866

# KODAK EKTACHROME 100D Color Reversal Film / 5285™

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## KODAK LOCATIONS

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

### 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 or (312) 492-1421

### HOLLYWOOD, CALIFORNIA

6700 Santa Monica Boulevard  
P. O. Box 38939  
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  
Ile des Soeurs, Verdun  
Quebec, Canada H3E 1J4  
Information: (514) 761-7001

### TORONTO, CANADA

Kodak Canada Inc.  
3500 Eglinton Avenue West  
Toronto, Ontario, Canada M6M 1V3  
Information: (416) 761-4922

### VANCOUVER, CANADA

Kodak Canada Inc.  
4185 Still Creek Drive, Suite C150  
Burnaby, British Columbia, Canada V5C 6G9  
Information: (604) 570-3526

### KODAK ON LINE AT:

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



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