KODAK EKTACHROME 64T Color Reversal Film 7280

KODAK EKTACHROME 64T Color Reversal Film 7280 is a 64-speed color reversal motion picture camera film designed for exposure with tungsten illumination (3200 K). This film offers excellent color reproduction, fine grain, and high sharpness. 7280 has outstanding reciprocity characteristics, which give consistent color balance and speed over a wide range of exposures. EKTACHROME 64T Film should be processed in an E-6 Process.

Manufacturing Code	Size
7280	Super 8 Silent x 50 ft

BASE

KODAK EKTACHROME 64T Color Reversal Film 7280 has an 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 ANSI/PIMA IT9.11-1998: 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 long-term storage conditions as soon as possible.

For more information about medium- and long-term storage, see ANSI/PIMA IT9.11-1998, SMPTE RP131-2002, and KODAK Publications No. H-1, *KODAK Motion Picture Film* available online at http://www.kodak.com/US/en/motion/support/h1, and No. H-23, *The Book of Film Care*.

EXPOSURE INDEXES

Tungsten (3200 K) - 64 / Daylight (5500 K) - 40[1]

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 tungsten illumination (3200 K). For other light sources, use the correction filters in the table below.

Light Source	KODAK Filters on Camera [1]	Exposure Index
Daylight (5500 K)	WRATTEN Gelatin No. 85	40
Tungsten (3000 K)	WRATTEN Gelatin No. 82B	40
Tungsten Photoflood (3400 K)	None	64
Tungsten (3200 K)	None	64
White-Flame Arcs	WRATTEN Gelatin No. 85B	25
Yellow-Flame Arcs	Color Compensating Filter 20Y	40
OPTIMA 32	None	64
VITALITE	WRATTEN Gelatin No. 85	40
Fluorescent, Cool White	WRATTEN Gelatin No. 85+ 10M	25
Fluorescent, Deluxe Cool White	WRATTEN Gelatin No. 85C + 10R	40
Metal Halide (H.M.I.)	WRATTEN Gelatin No. 85	40

[1] These are approximate corrections only. Some light sources are extremely variable. For critical applications, light source color temperature should be verified and test exposures should be performed.

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

1.With a KODAK WRATTEN Gelatin Filter No.85.

RECIPROCITY CHARACTERISTICS

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.

IDENTIFICATION

After processing, the product code number and other manufacturing identifications 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 7280 Film exposed with tungsten light filtered to 3200 K and processed as recommended in Process E-6 chemicals.

MTF:

The "perceived" sharpness of any film depends on various components of the motion picture production system. The camera and projector lenses and film printers, among other factors, all play a role. But the specific sharpness of a film can be measured and charted in the Modulation Transfer Curve.

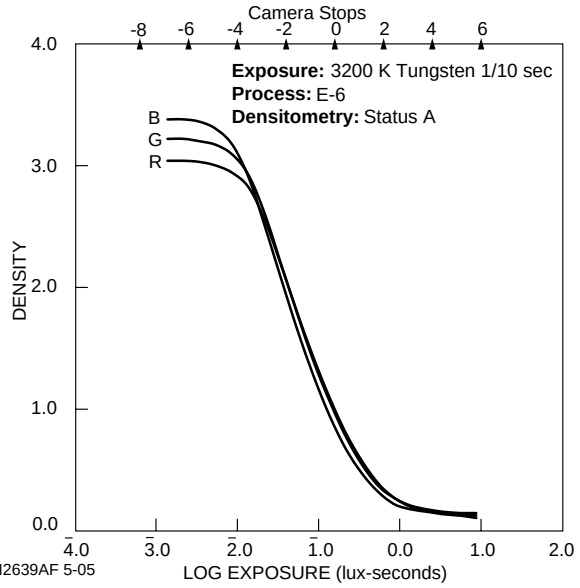
rms Granularity:

Refer to curve. Read with a microdensitometer, (red, green, blue) using a 48-micrometre aperture.

The "perception" of the graininess of any film is highly dependent on scene content, complexity, color, and density. Other factors, such as film age, processing, exposure conditions, and telecine transfer may also have significant effects.

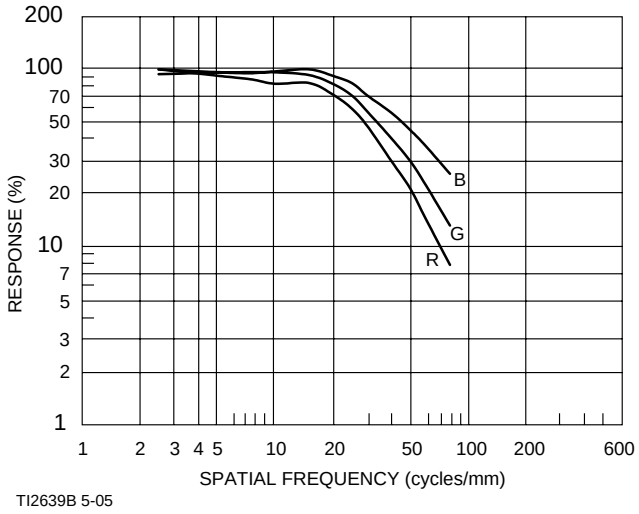
CURVES

Sensitometric Curves



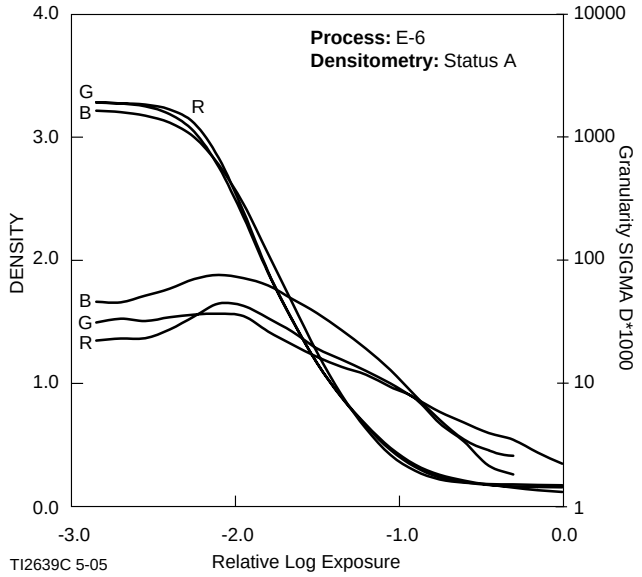
The curves describe this film's response to red, green, and blue light. Sensitometric curves determine the change in density on the film for a given change in log exposure.[2]

Modulation-Transfer Function Curves



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

Diffuse rms Granularity Curves

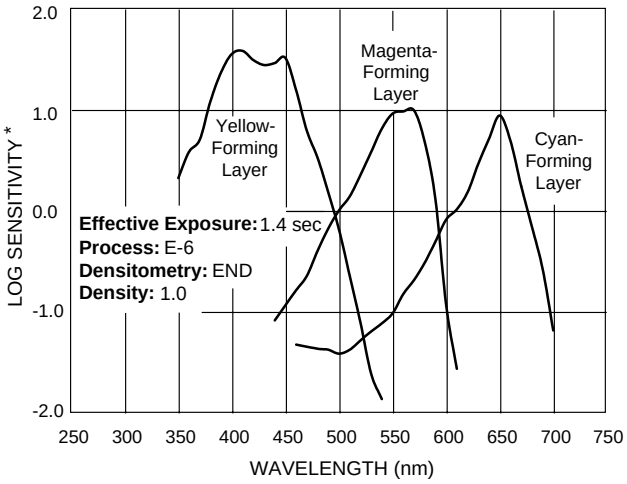


TI2639C 5-05

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.

Note: This curve represents granularity based on modified measuring techniques.[2]

Spectral Sensitivity Curves



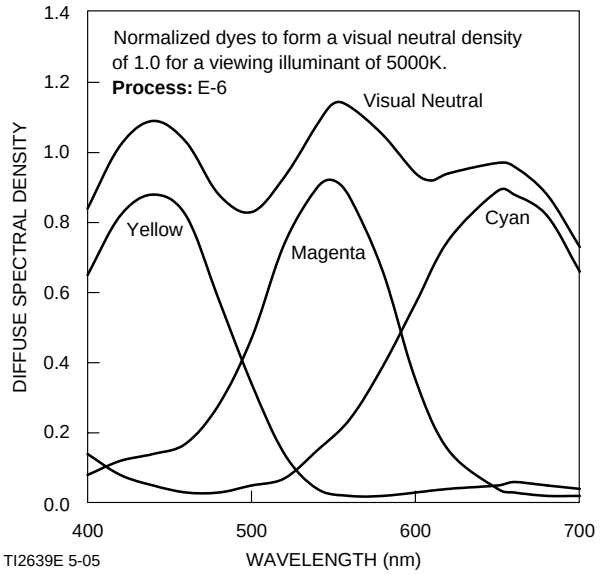
*Sensitivity = reciprocal of exposure (erg/cm^2) required to produce specified density

TI2639D 5-05

These curves depict the sensitivity of this film to the spectrum of light. They are useful for determining, modifying, and optimizing exposure for blue- and green-screen special-effects work.

2.NOTE: Sensitometric and Diffuse RMS Granularity curves are produced on different equipment. A slight variation in curve shape may be noticed.

Spectral Dye Density Curves



These curves depict the spectral absorptions of the dyes formed when the film is processed. They are useful for adjusting or optimizing any device that scans or prints the film.

Note: Cyan, Magenta, and Yellow Dye Curves are peak-normalized.

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.

SIZES AVAILABLE

Standard Products Available

Identification No.	Length in Metres (Feet)	Core	Description	Perforations
Super 8 SP464	15 (50)	Super 8 cartridge	Winding B For super 8 cartridge cameras	8 1R-S1667

MORE INFORMATION

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.

Films	*Cinematographer's Field Guide* KODAK Publication No. H-2
Image Structure	*KODAK Motion Picture Film* KODAK Publication No. H-1
Specification Numbers	*Cinematographer's Field Guide* KODAK Publication No. H-2
Storage	*KODAK Motion Picture Film* KODAK Publication No. H-1 *The Book of Film Care* KODAK Publication No. H-23
LAD	*LAD—Laboratory Aim Density* KODAK Publication No. H-61
Transfer	*KODAK Telecine Analysis Film User's Guide* KODAK Publication No. H-822 *KODAK Telecine Exposure Calibration Film User's Guide* KODAK Publication No. H-807

KODAK EKTACHROME 64T Color Reversal Film 7280

Kodak Locations

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

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New 5-05
Printed in U.S.A.