



Elite CHROME 160T

FILM (TUNGSTEN)



DESCRIPTION

This medium-speed color slide film features very fine grain and high sharpness. It is designed for exposure with tungsten illumination (3200 K). You can also expose it with daylight or electronic flash using filters. It is designed for processing in KODAK Chemicals, Process E-6.

The film is well-suited for indoor applications particularly interiors where there is tungsten illumination. It has an intended exposure range of 1/10,000 to 1/10 second with no filter or exposure adjustment.

Use this film to produce color transparencies (slides) for projection. You can also make duplicate transparencies by direct printing. To make color prints, you can print transparencies directly onto color reversal paper. Or make internegatives for printing onto color negative paper. You can also scan transparencies for digital printing and for Photo CD applications.

ELITE Chrome 160T Film is a member of the "Select Series" of Kodak films. The Select Series offers serious snapshooters and photo enthusiasts the widest selection of high-performance films. Choose from KODACHROME or KODAK ELITE Chrome Films for slides, or KODAK ROYAL GOLD Films for prints.

FEATURES

- Pleasing natural colors
- Very fine grain at 160 speed
- Balanced for tungsten illumination
- Processed in Process E-6 chemicals

BENEFITS

- Good reproduction even in dimly lit conditions
- Ideal for indoor applications
- Can be processed with other films for Process E-6

STORAGE AND HANDLING

Load and unload film in subdued light.

Store unexposed film at 21 °C (70 °F) or lower in the original sealed package. To avoid moisture condensation on film that has been refrigerated, allow the film to warm up to room temperature before opening the package. Process film as soon as possible after exposure.

Protect transparencies from strong light, and store them in a cool, dry place. For more information, see KODAK Publication No. E-30, *Storage and Care of KODAK Photographic Materials—Before and After Processing*.

SIZES AVAILABLE

Sizes and catalog numbers may differ from country to country. See your dealer who supplies Kodak products.

Rolls	Code	Base	CAT No.
135-24	ET	5-mil acetate	120 9485
135-36	ET	5-mil acetate	160 3208

Note: Use the catalog numbers in the table above only for orders placed in the United States and Canada.

DARKROOM RECOMMENDATIONS

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

EXPOSURE

Exposure Index Numbers

Use the exposure index numbers below with cameras or light meters marked for ISO or ASA speeds or exposure indexes. Do not change the film-speed setting when metering through a filter. Metering through filters may affect meter accuracy; see your meter or camera manual for specific information. For critical work, make a series of test exposures.

Light Source	KODAK WRATTEN Gelatin Filter	Exposure Index
Tungsten (3200 K)	None	160
Daylight or Electronic Flash	None	100

Tungsten Light

For best color rendition, use tungsten photolamps (3200 K) at their rated voltage. If voltage varies significantly, the color of the lamp will change. Other light sources may not give equally good results, even with filters. Unless you want a special effect, do not mix light sources of different color qualities, particularly tungsten light and daylight.

Fluorescent and High-Intensity Discharge Lamps

Use the color-compensating filters and exposure adjustments below as starting points to expose this film under fluorescent or high-intensity discharge lamps. For critical applications, make a series of test exposures under your actual conditions. Vary the recommended filtration by at least \pm CC10, and increase or decrease exposure accordingly.

To avoid the brightness and color variations that occur during a single alternating-current cycle, use exposure times of 1/60 second or longer with fluorescent lamps; with high-intensity discharge lamps, use 1/125 second or longer.

Type of Fluorescent Lamp	KODAK Color Compensating Filters	Exposure Adjustment
Daylight	No. 85B* + 30R + 10M	+1 2/3 stops
White	50R + 10M	+1 1/3 stops
Warm White	40R + 10M	+1 stop
Warm White Deluxe	10R	+ 1/3 stop
Cool White	60R	+1 1/3 stops
Cool White Deluxe	20R + 10Y	+2/3 stop

* This is a daylight-balanced conversion filter, such as the KODAK WRATTEN Gelatin Filter NO. 85B.

Note: When you do not know the type of fluorescent lamps, try a CC50R filter and increase exposure by 1 stop; color rendition will probably be less than optimum.

High-Intensity Discharge Lamp	KODAK Color Compensating Filters	Exposure Adjustment
General Electric Lucalox*	50M + 20C	+1 stop
General Electric Multi-Vapor	60R + 20Y	+1 2/3 stops
Deluxe White Mercury	70R + 10Y	+1 2/3 stops
Clear Mercury	90R + 40Y	+2 stops

*This is a high-pressure sodium-vapor lamp. The information in the table may not apply to other manufacturers' sodium-vapor lamps because of differences in spectral characteristics.

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

Some primary color filters were used in the previous tables to reduce the number of filters and keep the exposure adjustment to a minimum. Red filters were substituted for equivalent filtration in magenta and yellow. Blue filters were substituted for equivalent filtration in cyan and magenta.

Adjustments for Long and Short Exposures

No filter correction or exposure compensation is normally required for exposures from 1/10,000 to 1/10 second. At 1 second, increase exposure by $\frac{1}{3}$ stop and add a CC10R filter.

Note: This information applies only when exposing the film to tungsten illumination. The data are based on average emulsions and assume normal, recommended processing. Use the data only as a guide. For critical applications, make tests under your conditions.

PROCESSING

Process ELITE Chrome 160T Film in KODAK Chemicals, Process E-6. For best quality, use the normal speed rating of EI 160 and normal processing.

PRINTING TRANSPARENCIES (SLIDES)

Duplicate Color Transparencies

For direct printing, use—

KODAK EKTACHROME Duplicating Films
KODAK EKTACHROME RADIANCE Overhead Material
Or make internegatives on KODAK Commercial Internegative Film, and print them on—
KODAK VERICOLOR Print Film
KODAK VERICOLOR Slide Film
KODAK DURATRANS® RA Display Material
KODAK DURACLEAR™ RA Display Material

Color Prints

For direct printing, use—

KODAK EKTACHROME RADIANCE III Papers
KODAK EKTACHROME RADIANCE III SELECT Material

Or make internegatives on KODAK Commercial Internegative Film, and print them on—
KODAK EKTACOLOR PORTRA III Papers
KODAK EKTACOLOR SUPRA II Paper
KODAK EKTACOLOR ULTRA II Paper
KODAK DURAFLEX® RA Print Material

Prints and enlargements can be made digitally from color slides using equipment that scans, enhances, and prints images. See your photo dealer for services available in your area.

SCANNING TRANSPARENCIES

For Photo CD Applications

Use the Universal E-6 Film Term to scan all KODAK ELITE Chrome Films for KODAK PCD Imaging Workstation applications.

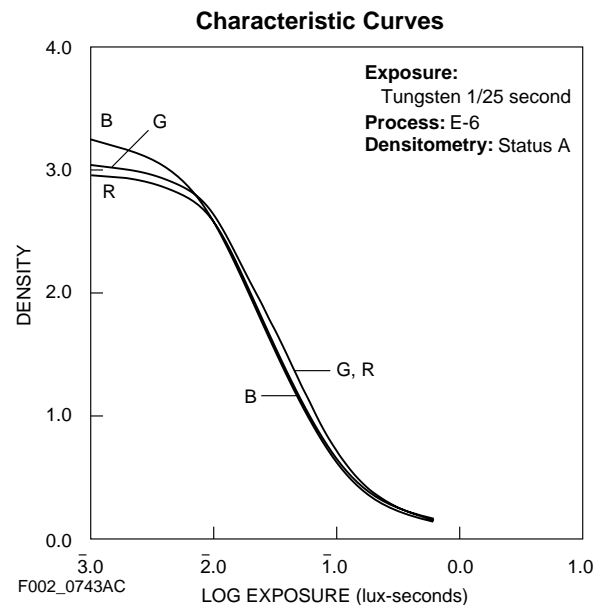
For output to a Photo CD player: Using the Universal E-6 Film Term should result in an image that closely matches your original in density, tone scale, and overall color balance when viewed on a player.

For output devices other than Photo CD players: The YCC data that results when using the Universal E-6 Film Term is capable of producing a high-quality duplicate of your original in terms of density, tone scale, and color reproduction. Final quality of your reproduced image depends on the capabilities of your output device, the viewing environment, and the rendering path used.

IMAGE STRUCTURE

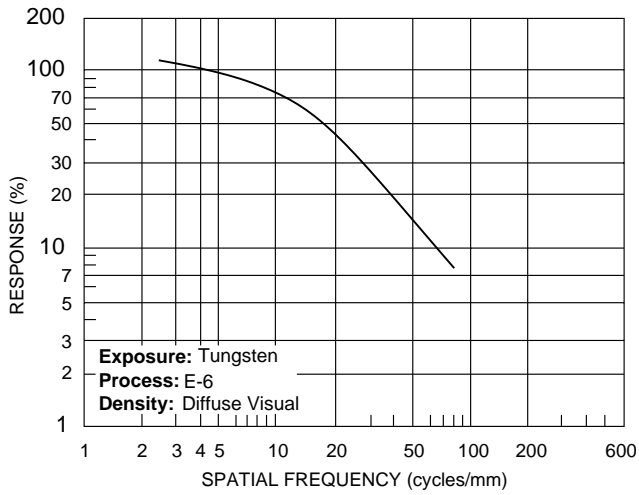
Diffuse rms Granularity* 13

*Read at a gross diffuse visual density of 1.0, using a 48-micrometre aperture, 12X magnification.



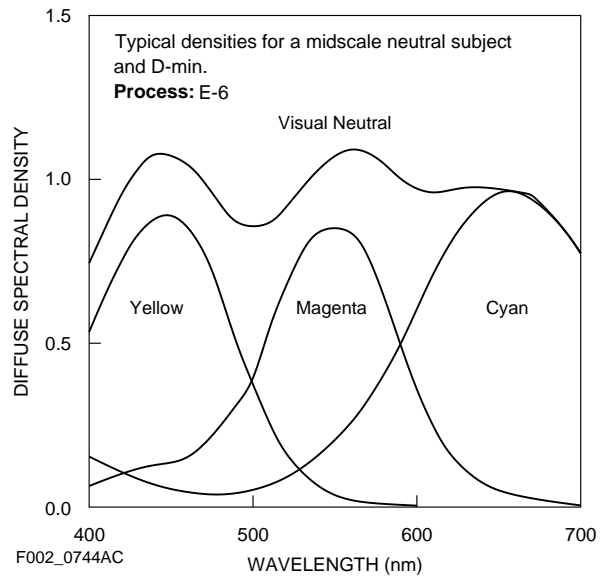
NOTICE: The sensitometric curves and data in this publication represent product tested under the conditions of exposure and processing specified. They are representative of production coatings, and therefore do not apply directly to a particular box or roll of photographic material. They do not represent 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.

Modulation-Transfer Curves



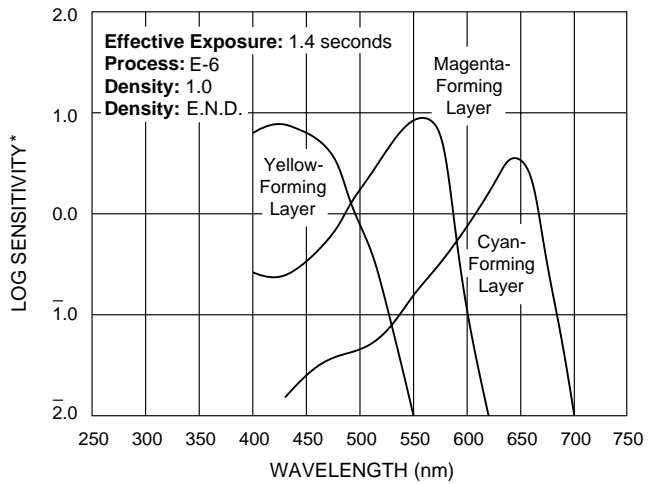
F002_0741AC

Spectral-Dye-Density Curves



F002_0744AC

Spectral-Sensitivity Curves



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

F002_0742AC

MORE INFORMATION

Kodak has many publications to assist you with information on Kodak products, equipment, and materials. The following publications are available from dealers who sell Kodak products, or you can contact Kodak in your country for more information. For residents of the United States, these publications also available directly from Kodak through the order form in KODAK Publication No. L-1, *KODAK Index to Photographic Information*. To obtain a copy of L-1, send your request with \$1 to Eastman Kodak Company, Department 412-L, Rochester, New York 14650-0532.

- E-30 *Storage and Care of KODAK Photographic Materials—Before and After Processing*
- E-31 *Reciprocity and Special Filter Data for KODAK Films*
- E-38 *KODAK EKTACHROME Duplicating Films*
- E-134 *KODAK ELITE Chrome 100 Film*
- E-148 *KODAK ELITE Chrome 200 Film*
- E-149 *KODAK ELITE Chrome 400 Film*
- Z-119 *Using KODAK Chemicals, Process E-6*

Kodak Information Center's Faxback System

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Many technical support publications for Kodak products can be sent to your **fax** machine from the Kodak Information Center. Call:

1-800-242-2424, Ext. 33

If you have questions about Kodak professional products, call Kodak.

In the U.S.A.

*1-800-242-2424, Ext. 25, Monday–Friday
9 a.m.–7 p.m. (Eastern time)*

In Canada:

*1-800-465-6325, Monday–Friday
8 a.m.–5 p.m. (Eastern time)*

*Or contact Kodak on-line at:
<http://www.kodak.com>*

Note: The Kodak materials described in this publication for use with KODAK ELITE Chrome 160T Film are available from dealers who supply Kodak products. You can use other materials, but you may not obtain similar results.

KODAK ELITE Chrome 160T Film (Tungsten)

AT-A-GLANCE FILM SELECTOR

KODAK Select Series Film	Film Speed	Exposure	Lighting Conditions	Grain	Process
<i>For Color Slides</i>					
ELITE Chrome 100	EI 100	Daylight or Electronic Flash	Bright or hazy sun Enlargements	Extremely fine	E-6
ELITE Chrome 160T (Tungsten)	EI 160	Tungsten	Stadium Theater Sports	Very fine	E-6
ELITE Chrome 200	EI 200	Daylight or Electronic Flash	Multi-purpose use	Extremely fine	E-6
ELITE Chrome 400	EI 400	Daylight or Electronic Flash	Low light Fast Action	Fine	E-6

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50 percent recycled fiber and 10 percent post-consumer material.

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