



Elite CHROME 100

FILM



DESCRIPTION

This medium-speed color slide film is ideal for general picture-taking under lighting conditions ranging from open shade or overcast to bright sunlight. It is also a good choice for nature- and underwater-photography applications. The film features very high sharpness, extremely fine grain, excellent contrast, and colors with high saturation.

ELITE Chrome 100 Film is intended for exposure with daylight or electronic flash. It can also be exposed with tungsten (3200 K) illumination with conversion filters.

Use this film to produce color slides for projection. You can have color prints, enlargements, duplicate slides, internegatives, and photo CDs made from your original slides.

ELITE Chrome 100 Film is a member of the KODAK Select Series of films. The Select Series offers serious snapshotters 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

BENEFITS

High Color Saturation:

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|------------------------|--|
| • Rich, vibrant colors | • Enhanced to produce striking results |
| • Pleasing skin tones | • Produces natural-looking skin tones |

Image Structure Technology:

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|---|----------------------------|
| • Patented KODAK T-GRAIN® Emulsion in all color records | • Extremely fine grain |
| • Triple-Coated Emulsion Technology in green- and red-light sensitive records | • Extremely high sharpness |
| • Iodide Inter-Image Amplifying Chemical | |

Advanced Color Technology:

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| • Solid-Particle Filter Dye for wavelength-selective, blue- and green-light protection | • Produces purer colors and enhanced sharpness |
| • Patented Stable Super Active Scavengers (SSAS) | • Provides broader range of blue-light capture |
| • New spectral sensitizing dyes | |

Exposure Reliability:

- | | |
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| • Precision Control Dopant Technology | • No compensation for exposures from 1/10,000 second to 10 seconds |
| • Produced in Kodak's new state-of-the-art manufacturing facility | • Excellent roll-to-roll consistency |

Process Reliability:

- | | |
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| • Designed for Process E-6 chemicals | • Process with other films in Process E-6 without equipment or process modifications |
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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*. Always store film in a cool, dry place. Process film as soon as possible after exposure.

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

SIZES AVAILABLE

Film Size	Code	Base	CAT No.
135-24	EB	5-mil acetate	111 3612
135-24 (carded)			151 8901
135-36			187 1490
135-36 (carded)			157 4862

DARKROOM RECOMMENDATIONS

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

EXPOSURE

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

Light Source	KODAKWRATTEN Gelatin Filter	Exposure Index
Daylight or Electronic Flash	None	100
Tungsten (3200 K)	No. 80A	25

Daylight

Use the exposures in the table below for average frontlit subjects from 2 hours after sunrise to 2 hours before sunset.

Lighting Conditions	Shutter Speed (second)	Lens Opening
Bright or Hazy Sun on Light Sand or Snow	1/125	f/22
Bright or Hazy Sun (Distinct Shadows)	1/125	f/16*
Weak, Hazy Sun (Soft Shadows)	1/125	f/11
Cloudy Bright (No shadows)	1/125	f/8
Heavy Overcast or Open Shade†	1/125	f/5.6

* Use f/8 for backlit close-up subjects.

† Subjects shaded from the sun but lighted by a large area of clear sky.

Electronic Flash

Use the appropriate guide number in the following table as a starting point for your equipment. Select the unit output closest to the number given by your flash manufacturer. Then find the guide number for feet or metres. To determine the lens opening, divide the guide number by the flash-to-subject distance. If slides are consistently too thin (overexposed), use a higher guide number; if they are too dense (underexposed), use a lower number.

Unit Output (BCPS)*	Guide Number	
	For Distances in Feet	For Distances in Metres
350	40	12
500	50	15
700	60	18
1000	70	21
1400	85	26
2000	100	30
2800	120	36
4000	140	42
5600	170	50
8000	200	60

* BCPS=beam candlepower seconds.

Fluorescent and High-Intensity Discharge Lamps

Use the color-compensating filters and exposure adjustments in the tables 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.

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 exposure times of 1/125 second or longer.

Type of Fluorescent Lamp	KODAK Color Compensating Filters	Exposure Adjustment
Daylight	50R	+1 stop
White	40M	+ $\frac{2}{3}$ stop
Warm White	20C + 40M	+1 stop
Warm White Deluxe	30B + 30C	+1 $\frac{1}{3}$ stops
Cool White	40M + 10Y	+1 stop
Cool White Deluxe	20C + 10M	+ $\frac{2}{3}$ stop

Note: When you don't know the type of fluorescent lamps, try a 30M filter and increase exposure by $\frac{2}{3}$ stop; color rendition will probably be less than optimum.

High-Intensity Discharge Lamp	KODAK Color Compensating Filters	Exposure Adjustment
General Electric Lucalox*	80B + 20C	+2 $\frac{1}{3}$ stops
General Electric Multi-Vapor	20R + 20M	+ $\frac{2}{3}$ stop
Deluxe White Mercury	30R + 30M	+1 $\frac{1}{3}$ stops
Clear Mercury	70R	+1 $\frac{1}{3}$ stops

* This is a high-pressure sodium-vapor lamp. The information in the table may not apply to other manufacturers' high-pressure 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 required for exposures from 1/10,000 to 1/10 second.

Note: This information applies only when the film is exposed to daylight. The data are based on average emulsions rounded to the nearest $\frac{1}{3}$ to $\frac{1}{2}$ stop and assume normal, recommended processing. Use the data only as a guide. For critical applications, make tests under your conditions.

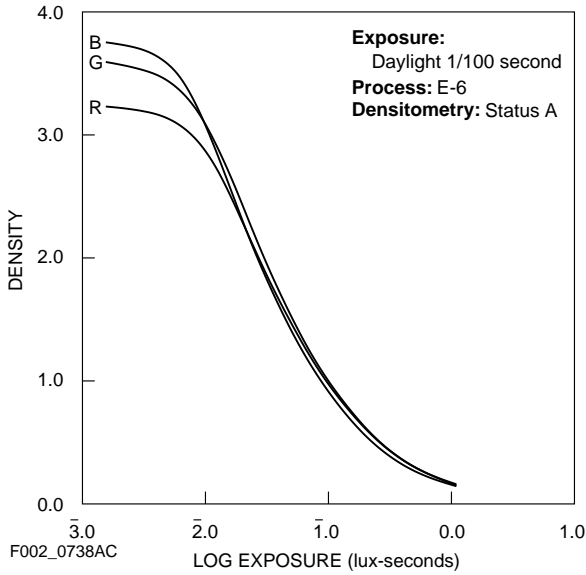
PROCESSING

Process ELITE Chrome 100 Film in KODAK Chemicals, Process E-6.

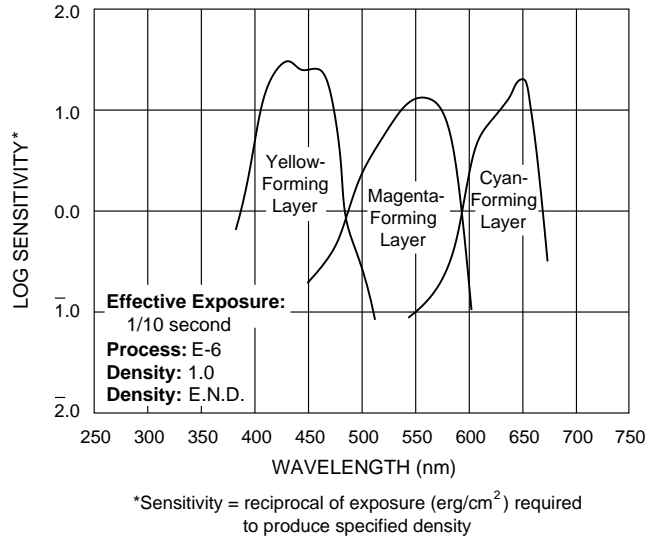
IMAGE STRUCTURE

Diffuse rms Granularity* 10

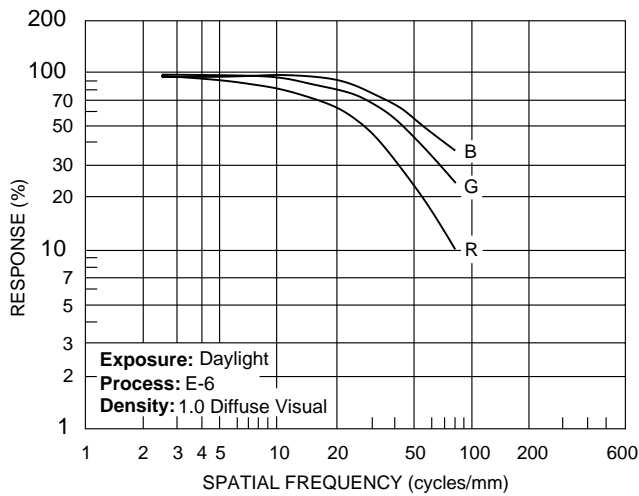
Characteristic Curves



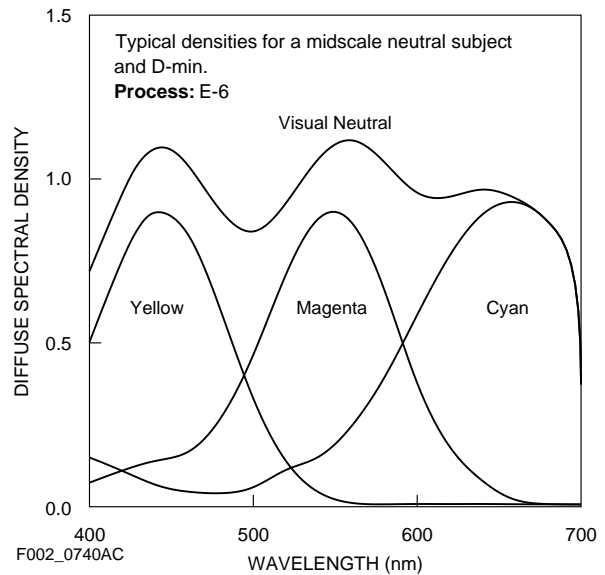
Spectral-Sensitivity Curves



Modulation-Transfer Curves



Spectral-Dye-Density Curves



* Read at a gross didiffuse 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.

PRINTING SLIDES

You can make color prints or enlargements photographically by printing color slides directly onto KODAK EKTACHROME RADIANCE III Papers. Or you can make internegatives and print them on KODAK EKTACOLOR Papers.

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

SCANNING 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.

* Such as KODAK Creation Station, KODAK Digital Enhancement Station, and KODAK Digital Print Station.

KODAK ELITE Chrome 100 Film

MORE INFORMATION

Kodak has many publications to assist you with information on Kodak products, equipment, and methods. The following publications are 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-148 *KODAK ELITE Chrome 200 Film*
- E-149 *KODAK ELITE Chrome 400 Film*
- E-154 *KODAK ELITE Chrome 160T Film*
- Z-119 *Using KODAK Chemicals, Process E-6*

Kodak Information Center's Faxback System

—Available 24 hours a day, 7 days a week—

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

U.S. 1-800-242-2424, Ext. 33

If you have questions about Kodak 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
8:30 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 100 Film are available from dealers who supply Kodak products. You can use other materials, but you may not obtain similar results.

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 Indoors	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

Consumer Imaging
EASTMAN KODAK COMPANY • ROCHESTER, NY 14650

