

## KODAK EKTACHROME SE Duplicating Film SO-366 (Process E-6)

- This is a color reversal film in 135 size and 35 mm long rolls for making duplicate slides from original transparencies on KODAK EKTACHROME or KODACHROME Films.
- Intended primarily for short exposure times with electronic flash.
- Compatible with camera films processed in Process E-6 chemicals.

**Darkroom Handling:** Handle unprocessed film in total darkness. You can turn on room lights after the reversal-bath step.

**Exposure and Printing Recommendations:** Although you can use either optical or contact printing equipment to expose this film, a diffuse optical system offers the least difficulty with dust and scratches.

This film is intended for short exposures with electronic flash at approximately 1/1000 second.

A starting-point **Filter Pack** for this emulsion is printed on the film carton. See the table below for exposure times and filter adjustments for the type of originals you are duplicating.

### Starting-Point Recommendations

KODAK Film (originals to be duplicated)	Printer Exposure with Electronic Flash (5600 K)
EKTACHROME (Process E-6) KODACHROME (Process K-12)	Filter Pack <i>f/11 to f/16</i>
KODACHROME (Process K-14)	Filter Pack +CC10C <i>f/11 to f/16</i>
EKTACHROME (Process E-4)	Filter Pack -CC15C <i>f/11 to f/16</i>
If you intermix originals on EKTACHROME Film (Process E-6) with:	
EKTACHROME (Process E-4) KODACHROME (Process K-12) KODACHROME (Process K-14)	Filter Pack -CC40C with KODAK Infrared Cutoff Filter No. 304* <i>f/11 to f/16</i>

NOTE: Include a KODAK WRATTEN Gelatin Filter No. 2B in the filter packs given above.

The filters suggested are KODAK Color Compensating Filters.

\*Using a KODAK Infrared Cutoff Filter No. 304 will allow you to use one filtration to duplicate intermixed originals. However, slight contrast mismatches will occur. For best results, use the recommended filtration for each type of original you are duplicating.

Correct positioning of the No. 304 filter is critical because it modifies the spectral characteristics of the light source. Do not tip the filter or allow the light to pass through the filter at an angle. Place the filter close to the light source, perpendicular to the center axis of the light beam. To avoid cracking the filter, place it in a loose-fitting holder with the coated side of the filter *toward* the light source. Use the positioning shown below:

1. Light source
2. KODAK Infrared Cutoff Filter No. 304  
Note: *The coated side must face the light source.*
3. Diffuser or light integrator
4. Transparency
5. Lens
6. Duplicating film

**Printer Magnification:** Adjust the printer to give a magnification of 1.03X for 35 mm, 110-, or 126-size transparencies. These magnifications represent the best compromise between critical positioning of the slide in the printing gate and minimum cropping. To check the lens magnification, project the original slide, measure the distance between two widely separated points on the projected image, and compare it to a measurement between the same two points on the projected duplicate slide. Divide the distance measured on the duplicate-slide image by the distance measured on the original-slide image to determine lens magnification.

**Camera Exposure:** You can use a 135-36 magazine of EKTACHROME SE Duplicating Film SO-366 in a single-lens-reflex camera equipped with a suitable slide-duplicating attachment. Electronic flash or daylight (at exposure times of less than 1/10 second) are suitable light sources.

**Electronic Flash:** From the "Starting-Point Recommendations" table, determine the starting filter pack for the type of originals you will duplicate. Insert the filter pack between the electronic flash and the transparency. Run trial exposures using the exposure index printed on the carton.

**Daylight:** Determine the starting filter pack from the "Starting-Point Recommendations" table and add a CC10R + CC10Y filter combination. Using the exposure index printed on the carton, expose the film for 1/10 second or less.

**Processing:** Process this film in Process E-6 chemicals. You can process it separately or with other camera-original KODAK EKTACHROME Films.

**Adjustment for Equipment or User Preference:** The starting-point filter pack printed on the carton is based on exposure with electronic flash. You may want to adjust this filtration for your particular equipment or individual preference.

To make this adjustment, start with the filter pack you are currently using. Then subtract the *recommended* filter pack for your current emulsion from the filter pack you're using. This calculation will give you the difference between the filter pack that you're using and the pack that was recommended. Finally, add the filter pack for this new emulsion (printed on the carton) to the difference to obtain your new filter pack.

Example:

Current filter pack	50C	40Y
Subtract the recommended pack for current emulsion	-30C	25Y
Difference	20C	15Y
Add the recommended pack for this new emulsion	+35C	30Y
New filter pack	55C	45Y

If the filter pack doesn't contain enough cyan or yellow filtration for you to remove the required amount, add the complementary filter. Then make any necessary adjustments to the exposure.

Be sure to follow storage and processing recommendations so that your adjusted filter pack will remain valid.

**Storage:** Keep unexposed film in a refrigerator at 13°C (55°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. Store exposed film in a cool, dry place. Process the film as soon as possible after exposure. Protect processed film from strong light and store it in a cool, dry place. For more information, write to Eastman Kodak Company, Department 412-L, Rochester, New York 14650, and ask for a single copy of KODAK Publication No. E-30, *Storage and Care of KODAK Films and Papers*.

**More Information:** For more information on this film, write to Eastman Kodak Company, Department 412-L, Rochester, New York 14650, and ask for a single copy of KODAK Publication No. E-38, *KODAK EKTACHROME Duplicating Films (Process E-6)*.

The Kodak materials described in this publication for use with KODAK EKTACHROME SE Duplicating Film SO-366 (Process E-6) are available from dealers who supply Kodak materials. Other materials may be used, but similar results may not be obtained.

**Read This Notice:** This film will be replaced if defective in manufacture, labeling, or packaging, or if damaged or lost by us or any subsidiary company. Except for such replacement, the sale, processing, or other handling of this film is without warranty or liability even though defect, damage, or loss is caused by negligence or other fault. Since color dyes may in time change, this film will not be replaced for, or otherwise warranted against, any change in color.



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