KODAK EKTACHROME RADIANCE III Clear Display Material



-NOTICE-

Discontinuance of KODAK PROFESSIONAL EKTACHROME RADIANCE III Papers and Materials and KODAK EKTACHROME R-3 Chemicals

Alternative options for image capture and output have gradually eliminated the need for PROFESSIONAL EKTACHROME RADIANCE III Papers and Materials as well as chemicals for Process R-3. Therefore, dependent on individual country and market requirements, Kodak will discontinue these products as inventories are exhausted

Technology has made the option of scanning, manipulating, and outputting images directly to traditional color paper very popular, and photographers are increasingly using color negative film and digital cameras for image capture. Producing positive prints, even from transparencies, for image display no longer requires the use of RADIANCE Papers and Materials.

Information on Kodak Professional Modular Digital Workflow Products (Equipment and Software) is available at www.kodak.com/go/digitalprolab

Thank you for using KODAK PROFESSIONAL Products.

KODAK EKTACHROME RADIANCE III Clear

Display Material is a versatile color reversal material designed for us on illuminators with built-in diffusers. You can use it for making color displays in process or repro cameras. The originals can be opaque copy, transparencies, or three-dimensional objects. You can also use it to make displays from slides/transparencies with an enlarger without first having to make internegatives.

It has a clear 7-mil ESTAR Thick base It is available in large format rolls.

Use KODAK EKTACHROME R-3 Chemicals to process this material.

FEATURES BENEFITS · Easy setup and balancing · Quicker turnaround times; improved productivity · Gelatin layer on back · Greater stability and reduced curl · Fast printing speed · Shorter exposure times · Extremely low minimum · Cleaner, whiter whites densitv · Elimination of print-out Longer life under normal display conditions

SIZES AVAILABLE

Sizes and catalog numbers may differ from country to country. See your dealer who supplies KODAK PROFESSIONAL Products. The following sizes are available in the U.S. and Canada.

KODAK EKTACHROME RADIANCE III Clear Display Material

Size in. x ft / cm x m	Spec No.	KODAK ESTAR Thick Base	CAT No.
20 x 100 / 50.8 x 30.5	193	7-mil (0.175 mm)	525 1673
27.5 x 100 / 70 x 30.5	193	7-mil (0.175 mm)	525 1913
41.3 x 100 / 105 x 30.5	193	7-mil (0.175 mm)	525 1681
50 x 100 / 127 x 30.5	223	7-mil (0.175 mm)	525 1699
50 x 100 / 127 x 30.5	193	7-mil (0.175 mm)	525 1707

STORAGE AND HANDLING

Store unexposed material at 13°C (55°F) or lower in the original sealed package. High temperatures or high humidity may produce unwanted quality changes.

To avoid moisture condensation on material that has been refrigerated, allow it to completely warm up to room temperature before opening the package. For best results, remove the material from cold storage the day before printing, or use the warm-up times in the following table. For more storage information, see KODAK Publication No. E-30, *Storage and Care of KODAK Photographic Materials* — *Before and After Processing*.

Warm-Up Times (in Hours) to Reach Room Temperature of 24 °C (75°F)			
	From a Storag	ge Tempera	ture of
Size	-18°C (0°F)	2°C (36°F)	10°C (50°F)
Rolls 11 in. (27.9 cm) or wider	12	9	6

These times are based on a single package, positioned to allow free air circulation. After you remove the material you need, re-wrap the package and reseal it with tape to restore the moisture barrier.

Handle these materials very carefully by the edges to avoid creases and fingerprints. The materials are extremely sensitive to light; store and transport them in lightlight boxes.

DARKROOM RECOMMENDATIONS

Do not use a safelight; handle unprocessed material in *total darkness*. Be sure that your darkroom is lighttight. Eliminate stray light from the enlarger head, repro camera lamps, timers, digital displays, etc.; even indicator lights and fluorescent tape can fog the material.

EXPOSURE

Expose the material from originals such as continuous-tone or printed matter, maps, drawings, layouts, or documents in a process or repro camera by using subtractive, tricolor-additive, or semi-additive methods. Although this material is balanced for exposure with a light source of 3000 to 3200 K, you can use any of the following light sources: pulsed xenon, incandescent, halogen, or flood lamps.

Using a Process (Repro) Camera

For a 1:1 ratio in a Klimsch Super M3 Repro Camera equipped with a halogen light source, use these trial-exposure conditions:

Trial Exposure Using a Process (Repro) Camera to Expose KODAK EKTACHROME RADIANCE III Clear Display Material		
Printing Method	Filters	Exposure Time (in Seconds) for an Aperture Setting of f/22
Subtractive	CC10C + CC10M	6.0
Tricolor-additive (with KODAK WRATTEN Gelatin Filters)	No. 29 Red	4.5
	No. 61 Green	7.5
	No. 47B Blue	20.0
Semi-additive (with KODAK WRATTEN Gelatin Filters)	White Light	2.5
	No. 29 Red	2.0
	No. 61 Green	10

Because exposure times and filtration will differ with the equipment, the light source, the original, your process control, etc., use the tables only as a guide.

To maintain high image quality, control flare as much as possible. Flare consists of stray ambient light and scattered image light that might reach the material during exposure. Follow these procedures to control flare:

- Keep the lenses, mirrors, filters, and copyboard glass clean and free of scratches.
- Keep the interior of the camera clean.
- Use the additive or semi-additive printing method whenever possible to minimize the number of filters in the optical path.
- Adjust the copyboard lights and room lights so that neither the lights nor reflections from the copyboard glass fall on the camera lens.
- Mask the areas surrounding the original with black material.

Using an Enlarger

You can also use this material to make overheads from slides with a conventional enlarger without first making internegatives. Equip the enlarger with a heat-absorbing glass, and use color-correction filters and a voltage regulator. If you are using color-compensating or color-printing filters, do *not* use cyan filters with the suffix "2" as in "CC10C-2" or "CP10C-2." You will not need an ultraviolet-absorbing filter.

To make a print $50.8 \times 61.0 \text{ cm} (20 \times 24 \text{ inches})$ from a 35 mm slide, use the following adjustments for your trial exposure with a Durst Optimo AC Enlarger (dichroic filters, tungsten/halogen light source, 50 mm lens).

Trial Exposure Using a Durst Optimo AC Enlarger to Expose KODAK EKTACHROME RADIANCE III Clear Display Material		
Printing Method	Filters	Exposure Time (in Seconds) for an Aperture Setting of <i>f/</i> 11
Subtractive	CC60C + CC45M	45.0

Printing Digital Images

KODAK EKTACHROME RADIANCE III Clear Display Material can be used as an output medium with digital images on a Durst Lambda Laser Imager. For optimum results, refer to your equipment manufacturer's recommendations for calibration information.

With a Durst Lambda 130 Imager:

D-min	Basic Calibration (Starting Values)
R = 10 G = 10 B = 10	Y = 41 M = 0 C = 71.3 D = 37.7

Adjustment for Long or Short Exposures

Regardless of the type of light source and exposure time, there is little or no change in speed or contrast with EKTACHROME RADIANCE III Clear Display Material.

Exposure Time Range	Filter	Exposure Correction
0.5 to 10 seconds	None	+1/ 3 stop
10 to 100 seconds	CC05Y or equivalent	None

LATENT-IMAGING KEEPING

A very limited sensitometric variation is noticeable within the first few minutes after exposure. Beyond 5 minutes after exposure, there is no significant variation up to several days.

PROCESSING

Use KODAK EKTACHROME R-3 or R-3 LU Chemicals to process these materials in continuous or roller-transport processors. In most instances, these materials will require increased replenishment rates. For specific processing instructions, see KODAK Publication No. Z-129B, *Using KODAK EKTACHROME R-3 Chemicals in Continuous and Roller-Transport Processors*, available from our website at **www.kodak.com/go/photochemicals.**

DRYING

Drying conditions for these materials are different from those used for EKTACHROME RADIANCE III Papers because of the gelatin anti-curl backing on the base side.

If you process the material in a continuous processor, use double-bladed squeegees following the final wash. Use a dryer that blows air on both sides of the material. If your dryer does not have that capability, you will need to increase the drying temperature. Remember to set the temperature back before processing paper again; otherwise, you may have transport problems and excessive curl in the paper.

VIEWING

Evaluate display transparencies under conditions similar to those you will use for viewing them. Remember that EKTACHROME RADIANCE III Clear Display Material is intended for use with translucent light boxes for display presentations.

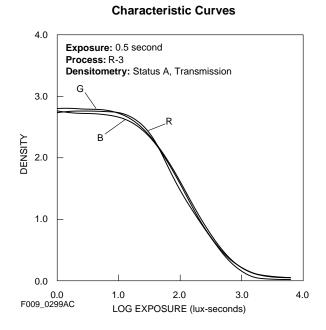
DISPLAYING

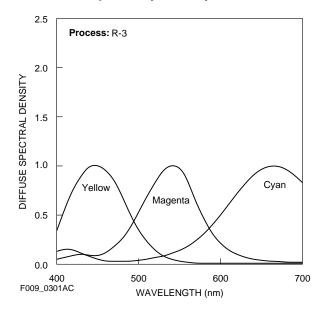
Photographic dyes, like all dyes, can change with time and exposure to sunlight, ultraviolet radiation, excessive heat, and high humidity. To help prevent changes in photographic dyes, follow these guidelines:

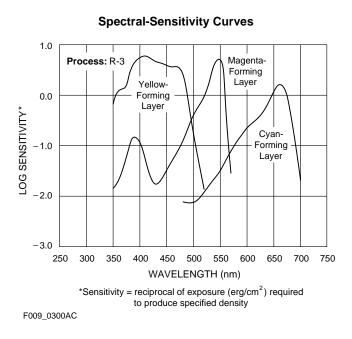
- Display prints with the lowest-light level consistent with viewing needs.
- Maintain temperature and low humidity.

CURVES

Spectral-Dye-Density Curves







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.

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.

E-30	Storage and Care of KODAK Photographic Materials—Before and After Processing
E-1766	KODAK EKTACHROME RADIANCE III Paper
E-1767	KODAK EKTACHROME RADIANCE III SELECT Material
E-2410	KODAK EKTACHROME RADIANCE III Copy Paper
E-2411	KODAK EKTACHROME RADIANCE III HC Copy Paper
E-2412A	KODAK EKTACHROME RADIANCE III Overhead Material
E-2413	KODAK EKTACHROME RADIANCE III Translucent Display Material
Z-129	Using KODAK EKTACHROME R-3 Chemicals, Sixth Edition
Z-129A	KODAK EKTACHROME R-3 and R-3000 Chemicals
Z-129B	Using KODAK EKTACHROME R-3 Chemicals in Continuous and Roller-Transport Processors
Z-129C	Using KODAK EKTACHROME R-3000 and R-3 Chemicals in Batch-Type Processors
Z-129E	Monitoring and Troubleshooting Processes Using KODAK EKTACHROME R-3 and R-3000 Chemicals
Z-129G	Recovering Silver from Processes Using KODAK EKTACHROME R-3 Chemicals
Z-129H	Using KODAK EKTACHROME R-3 LU Chemicals in Roller-Transport Processors

For the latest version of technical support publications for
KODAK PROFESSIONAL Products, visit Kodak on-line at:
http://www.kodak.com/go/professional
If you have questions about KODAK PROFESSIONAL
Products, call Kodak.
In the U.S.A.:
1-800-242-2424, Ext. 19, 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)

Note: The Kodak materials described in this publication for use with KODAK EKTACHROME RADIANCE III Display Materials are available from dealers who supply KODAK PROFESSIONAL Products. You can use other materials, but you may not obtain similar results.

Kodak Professional

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