

# KODAK EKTACHROME RADIANCE III HC Copy Paper



—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](http://www.kodak.com/go/digitalprolab)

Thank you for using KODAK PROFESSIONAL Products.

Use this resin-coated color reversal paper to make direct color copies when you need high-contrast reproduction of line-copy originals such as drawings, maps, documents, blueprints, and layouts. EKTACHROME RADIANCE III HC Copy Paper has higher contrast and D-max than KODAK EKTACHROME RADIANCE III Copy Paper. The “HC” stands for *high contrast*.

This paper is available in both rolls and sheets with F (glossy) and N (semi-matt) surfaces. You can process it with KODAK EKTACHROME R-3 Chemicals.

FEATURES	BENEFITS
• Improved color reproduction	• More accurate colors
• Extremely low minimum density	• Cleaner, whiter whites
• Elimination of thermal yellowing	• Longer print life under dark-storage 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.

### Sheets

Size in. x in. / cm x cm	Sheets Per Package	Surface	CAT No.
8.5 x 11 / 21.6 x 27.9	100	N	508 6673
11 x 14 / 27.9 x 35.6	50	F	508 6756
11 x 14 / 27.9 x 35.6	50	N	508 6699
16 x 20 / 40.6 x 50.8	50	N	508 6707
20 x 24 / 50.8 x 61	50	F	508 6715
20 x 24 / 50.8 x 61	50	N	508 6657

### Rolls

Rolls in. x ft / cm x m	Spec No.	Surface	CAT No.
11 x 200 / 27.9 x 61	193	F	508 6897
11 x 200 / 27.9 x 61	193	N	508 6830
11.7 x 200 / 29.7 x 61	193	N	508 6764
11.7 x 200 / 29.7 x 61	193	F	508 6848
20 x 200 / 50.8 x 61	223	N	508 6822
24 x 200 / 61 x 61	223	F	508 6855
30 x 100 / 76.2 x 30.5	223	N	521 1461
50 x 100 / 127 x 30.5	223	F	508 7036
50 x 100 / 127 x 30.5	223	N	508 6814
50 x 100 / 127 x 30.5	224	F	508 6871
50 x 100 / 127 x 30.5	224	N	508 6806

## STORAGE AND HANDLING

Store unexposed paper at 13°C (55°F) or lower. High temperatures or high humidity may produce unwanted quality changes. To avoid moisture condensation on paper that has been refrigerated, allow it to completely warm up to room temperature before opening the package. For best results, remove the paper 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)			
Size	From a Storage Temperature of		
	-18°C (0°F)	2°C (36°F)	10°C (50°F)
50-sheet box	3	2	2
100-sheet box	4	3	2
Rolls wider than 11 in. (28 cm)	12	9	6

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

Handle this paper very carefully by the edges to avoid creases and fingerprints. This high-speed paper is extremely sensitive to light; store and transport it in lighttight boxes.

## DARKROOM RECOMMENDATIONS

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

## EXPOSURE

You can expose EKTACHROME RADIANCE III HC Copy Paper from opaque originals in a process or repro camera by using subtractive, tricolor-additive, or semi-additive methods. Although this paper is balanced for exposure with a light source of 3200 K, you can use any of the following: pulsed xenon, incandescent, flood, or halogen lamps. Do not use fluorescent lamps or electronic flash.

### 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 HC Copy Paper		
Printing Method	Filters	Exposure Time (in Seconds) for an Aperture Setting of <i>f</i> /22
Subtractive	CC10Y	4.4
Tricolor-additive (with KODAK WRATTEN Gelatin Filters)	No. 29 Red	4.5
	No. 61 Green	12
	No. 47B Blue	9.2
Semi-additive (with KODAK WRATTEN Gelatin Filters)	White Light	2.3
	No. 29 Red	1.5
	No. 61 Green	4.5

Because exposure times and filtration will differ with the equipment, the light source, the original, your process control, etc., use the tables 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 paper during exposure. Follow these procedures to control flare:

- Keep the lens surfaces, 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.

### Adjustment for Long or Short Exposures

You will not notice a change in the speed or in the contrast of RADIANCE III HC Copy Paper at exposure times from 0.5 second to 100 seconds with tungsten, halogen, or pulsed-xenon light sources. We do not recommend using flash to expose this paper. The short flash exposure times will affect the quality of the prints.

## LATENT-IMAGE KEEPING

You should not see any shifts in the latent image with different keeping times between exposure and processing. Therefore, you do not need to change your printing procedures to compensate for latent-image shifts under normal temperature and handling conditions.

## PROCESSING

Use KODAK EKTACHROME R-3 or R-3 LU Chemicals to process this paper in continuous or roller-transport processors. For specific processing instructions, see KODAK Publication No. Z-129B, *Using KODAK EKTACHROME R-3 Chemicals in Continuous and Roller-Transport Processors*, available on our website at [www.kodak.com/go/professional](http://www.kodak.com/go/professional).

## DRYING

Do **not** ferrotype this paper.

Remove excess water from the surface of the paper before drying. Dry the prints using dust-free air. The temperature of the air will depend on the design of the dryer, the air-flow rate, and the total drying time. The ideal drying temperature is between 50 and 70°C (122 and 158°F). If the temperature is too high, the paper may curl. If the temperature is too low, the surface gloss of the paper is reduced, and the risk of the paper sticking is increased.

## VIEWING

Evaluate prints under light of the same color and brightness that you will use to view the final prints. A good average viewing condition is a light source with a color temperature of  $4000 \pm 1000$  K, a Color Rendering Index (CRI) of 85 to 100, and an illuminance of at least 538 lux (50 footcandles). Fluorescent lamps such as the cool white deluxe fluorescent lamp (made by several manufacturers) meet these conditions. You can also use a mixture of incandescent and fluorescent lamps. For each pair of 40-watt cool white deluxe fluorescent lamps, use a 75-watt frosted tungsten bulb.

## MOUNTING

You can mount prints with KODAK Dry Mounting Tissue, Type 2. The temperature across the heating platen of the mounting press should be between 82 and 99°C (180 and 210°F). Temperatures above 110°C (230°F) or high pressure may cause physical and color changes in prints. Preheat the cover sheet that you use over the face of the print to remove moisture. Apply pressure for 30 seconds or longer for a thick mount.

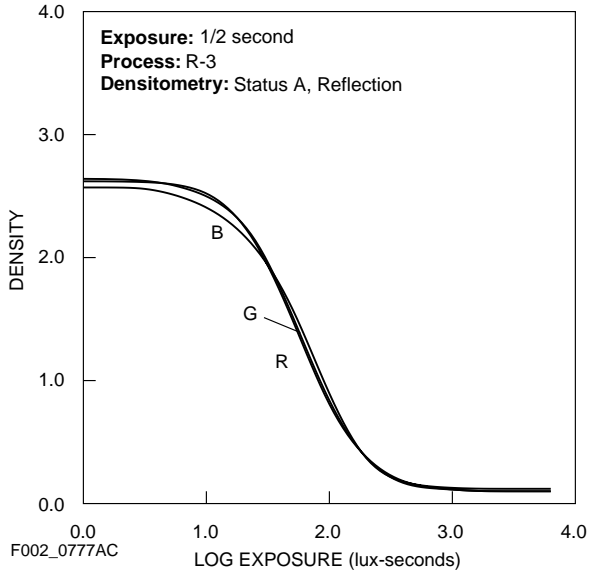
## DISPLAYING

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:

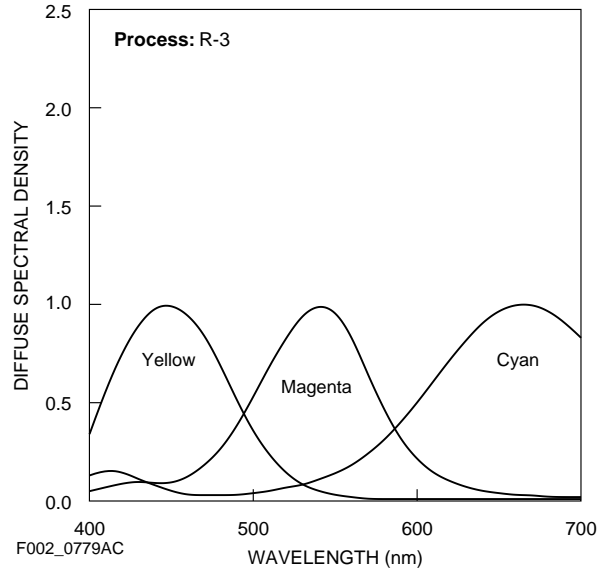
- Illuminate prints with tungsten light whenever possible.
- Display prints in the lowest light level consistent with your viewing needs.
- If a print is exposed to direct or indirect sunlight or fluorescent light, use an ultraviolet-absorbing filter between the light source and the print.
- Keep the temperature and humidity as low as possible.

# CURVES

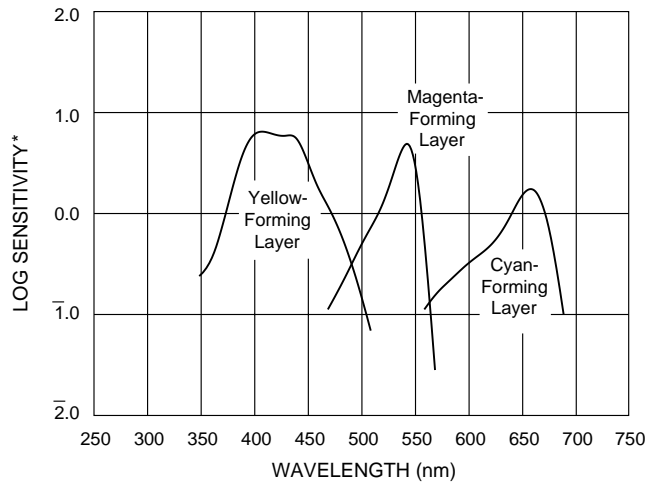
### Characteristic Curves



### Spectral-Dye-Density Curves



### Spectral-Sensitivity Curves



\*Sensitivity = reciprocal of exposure (erg/cm<sup>2</sup>) required to produce specified density

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**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-67 *Finishing Prints on KODAK Water-Resistant Papers*
- E-70 *Retouching Prints on KODAK EKTACOLOR and EKTACHROME Papers*
- E-2410 *KODAK EKTACHROME RADIANCE III Copy Paper*
- E-2412A *KODAK EKTACHROME RADIANCE III Overhead Material*
- E-2412B *KODAK EKTACHROME RADIANCE III Clear Display 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 HC Copy Paper are available from dealers who supply KODAK PROFESSIONAL Products. You can use other materials, but you may not obtain similar results.

# KODAK EKTACHROME RADIANCE III HC Copy Paper

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**Kodak Professional**

KODAK EKTACHROME  
RADIANCE III HC Copy Paper  
KODAK Publication No. **E-2411**

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