

KODAK EKTACOLOR EDGE Paper



TECHNICAL DATA / COLOR PAPER

September 2012 • E-7020

KODAK EKTACOLOR EDGE Paper is an exceptional state-of-the-art, silver-halide paper for making direct digital prints from digital files, as well as optical prints from color negatives. This paper delivers enhanced color reproduction, state-of-the-art image stability, and is optimized to work well in both digital and optical imaging systems.

This paper is available in a variety of roll sizes in E (fine lustre) and F (glossy) surfaces. It is designed for processing in KODAK EKTACOLOR RA, KODAK EKTACOLOR PRIME, and KODAK EKTACOLOR PRIME LORR Chemicals for Process RA-4 or KODAK EKTACOLOR SM Chemicals for Process RA-2SM.

FEATURES	BENEFITS
<ul style="list-style-type: none"> Optimized for digital printing 	<ul style="list-style-type: none"> Exceptional detail and crisp text Easy to calibrate
<ul style="list-style-type: none"> Increased color gamut; saturated colors 	<ul style="list-style-type: none"> Rich, bright, compelling colors Vibrant greens and blues
<ul style="list-style-type: none"> State-of-the-art image stability 	<ul style="list-style-type: none"> Bold, bright colors that last a lifetime before noticeable fading in typical home display conditions Over 200 years before noticeable fading in the most common home dark storage conditions
<ul style="list-style-type: none"> Robust processing performance 	<ul style="list-style-type: none"> Resistant to abrasion marks during processing Minimum waste Clean running performance Less process sensitivity to leuco cyan dye in the bleach-fix (<pH 6.2)
<ul style="list-style-type: none"> Excellent flesh tone reproduction 	<ul style="list-style-type: none"> Natural-looking skin tones; realistic-looking prints
<ul style="list-style-type: none"> Wide tone scale 	<ul style="list-style-type: none"> Pleasing flesh to neutral; warm highlights Fine detail in highlights and shadows

STORAGE AND HANDLING

For optimum results, store unexposed paper at 13°C (55°F) or lower in the original package. You can store unexposed paper at 24°C (75°F) for up to 6 months and still achieve high-quality results. High temperatures or high humidity may produce unwanted changes.

To avoid moisture condensation on paper that has been refrigerated, allow it to warm up to room temperature before opening the package. For best results, remove the package from cold storage the day before you use it, or allow the paper to warm up for the appropriate time listed in the following table.

Handle paper carefully by the edges to avoid creases and fingerprints.

Minimum Warm-Up Time (Hours) at Ambient Temperature of 21°C (70°F)			
Size	From a Storage Temperature of		
	-18°C (0°F)	2°C (35°F)	13°C (55°F)
Rolls: cm x m (in. x ft)			
8.9 x 93 (3 1/2 x 305)	5	3.5	2.5
8.9 x 186 (3 1/2 x 610)	7.5	5.5	4
8.9 x 253 (3 1/2 x 830)	8	6	4
8.9 x 372 (3 1/2 x 1220)	10	8	6
10.2 x 93 (4 x 305)	5	4	2.5
10.2 x 186 (4 x 610)	8	6	4.4
10.2 x 253 (4 x 830)	9	7	5
10.2 x 372 (4 x 1220)	10.5	8	5.5
12.7 x 93 (5 x 305)	5.5	4	2.5
12.7 x 186 (5 x 610)	9	7	5
12.7 x 253 (5 x 830)	11	8.5	7
15.2 x 93 (6 x 305)	5.5	4.5	3
15.2 x 186 (6 x 610)	9.5	7.5	5
20.3 x 93 (8 x 305)	11	8	5.5
20.3 x 186 (8 x 610)	11	8	5.5
25.4 x 93 (10 x 305)	6	4.5	3
25.4 x 186 (10 x 610)	11.5	8.5	6
27.9 x 93 (11 x 305)	6	4.5	3
30.5 x 93 (12 x 305)			
40.6 x 93 (16 x 305)			
50.8 x 93 (20 x 305)			

Warm-up times for pallets of paper will vary. For example, one pallet of 44 8.9 cm x 372 m (3 1/2 in. x 1220-ft) rolls (4 stacks of 11 rolls) stored at 2°C (35°F) would require a minimum warm-up time of 24 hours at 21°C (70°F).

DARKROOM RECOMMENDATIONS

Do not use a safelight. Handle unprocessed paper only in *total darkness*. KODAK EKTACOLOR EDGE Paper is sufficiently sensitive to photographic safelights that sensitometric shifts may occur before D-min (fog) changes are seen.

If a safelight is absolutely necessary for a specific application, the effect of the safelight can be minimized by using a KODAK 13 Safelight Filter / amber with a 7 1/2-watt bulb no closer than 4 feet (1.2 metres) from the paper. Keep safelight exposure as short as possible. Test the safelight exposure to verify that safelight exposure intensities and/or times are not adversely affecting print quality. See KODAK Publication No. K- 4, *How Safe is Your Safelight?* for information on safelight testing.

Because KODAK EKTACOLOR EDGE Paper is very light sensitive, printing and processing darkrooms should be lighttight. In addition, ensure that sources of stray light within the darkroom, such as lamphouse heads, timer lights, LEDs, etc., are eliminated or shielded.

EXPOSURE

You can expose this paper in automatic printers, such as KODAK CLAS 35 II and KODAK CLAS III Color Printers, KODAK Minilab Systems, KODAK 3510 Color Printers, KODAK 312 Color Printers, KODAK I.LAB Digital High-Speed Printers, AGFA High-Speed Printers, GRETAG High-Speed Printers, GRETAG Minilabs and Microlabs, NORITSU Minilabs and Microlabs, FUJI FRONTIER and other FUJI Minilabs, KONICA Minilabs, PHOTO-ME Minilabs, and more.

Note: Printer and balance slope changes may be necessary. Check production after final balance. You may want to make a color preference adjustment.

Because voltage changes affect the light output and color quality, use a voltage regulator. Use a tungsten-halogen lamp to expose the paper. Do not use a fluorescent lamp. If the printer has no means of removing infrared radiation, use a heat-absorbing glass.

Keep negatives and the optical system of your equipment clean. Mask negatives to eliminate stray light.

To control the color balance, use dichroic filters, KODAK Color Printing Filters (CP), or KODAK Color Compensating Filters (CC) placed between the lamp and the negative. You can also use CC filters between the lens and the paper if they are clean and unscratched. Use as few CC filters between the lens and the paper as possible—preferably not more than three. If you use cyan filtration, use filters with the suffix “-2,” such as CP10C-2.

Start with a filter pack of 40M + 40Y for the white-light method. Adjust filtration as necessary.

LATENT-IMAGE KEEPING

For best results, process the paper on the same day that you expose it. (If latent-image shifts occur, minimize them by keeping the time between exposure and processing as consistent as possible.)

PROCESSING

Use KODAK EKTACOLOR Chemicals for Process RA-4 or KODAK EKTACOLOR SM Chemicals for Process RA-2SM. For FUJI FRONTIER Processors, use KODAK EKTACOLOR Processing Cartridge 111 and KODAK Rinse Tablets. Use KODAK Control Strips, Process RA-4 to monitor your process.

For more information on processing chemicals, see www.kodak.com/go/photochemicals.

Use a maximum drying temperature of 96°C (205°F).

VIEWING

Evaluate prints under light of the same color and brightness that you will use to view the final prints. For an average condition, use a light source with a color temperature of 5000 ± 1000 K, a Color Rendering Index (CRI) of 85 to 100 (an index of 90 or higher is desirable), and an illuminance up to 500 lux. Fluorescent lamps such as a cool white deluxe lamp (made by several manufacturers) meet these conditions. You can also use a mixture of fluorescent and incandescent lamps. For each pair of 40-watt cool white deluxe lamps, use a 75-watt frosted tungsten bulb.

RETOUCHING

Retouch this paper by following instructions in KODAK Publication No. E-70, *Retouching Prints on KODAK EKTACOLOR and EKTACHROME Papers*.

STORAGE AND DISPLAY OF PRINTS

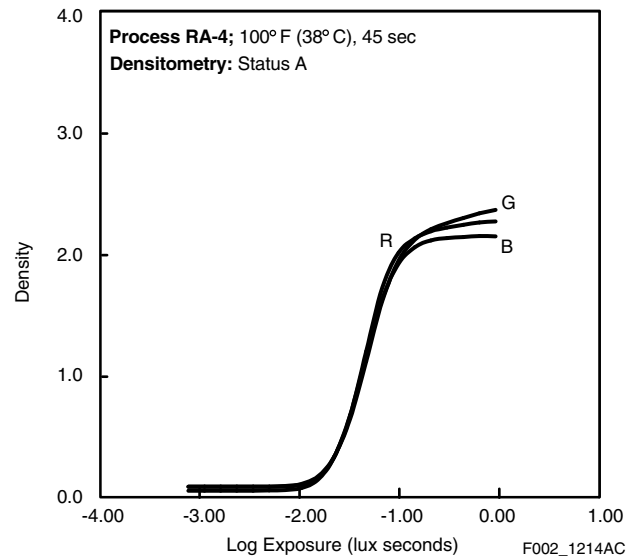
KODAK EKTACOLOR EDGE Paper has been formulated to provide improved dye stability and print longevity for prints displayed under typical home lighting conditions (i.e., 120 lux for 12 hours a day).

Despite the improvements in print longevity and fade neutrality, 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:

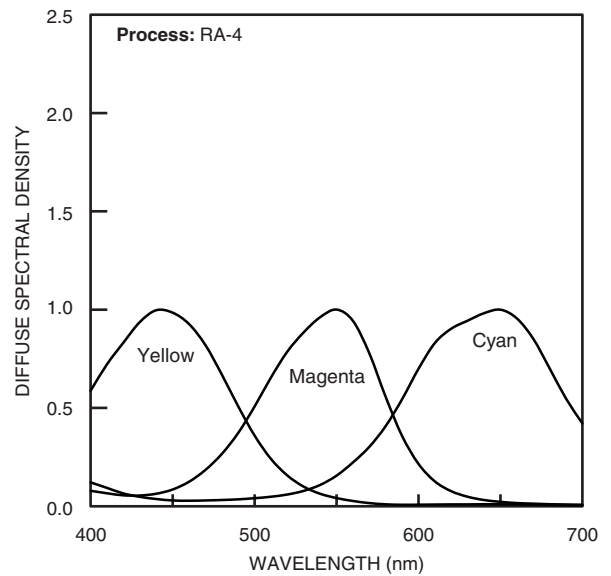
- Display prints in the lowest light level consistent with your viewing needs. Tungsten light is the preferred artificial light source.
- If a print is exposed to direct or indirect sunlight or fluorescent light, use an ultraviolet-absorbing filter (such as glass) between the light source and the print.
- Keep the temperature and humidity as low as possible.
- Use album materials described in KODAK Publication No. E-30, *Storage and Care of KODAK Photographic Materials—Before and After Processing*.

CURVES

Characteristic Curves

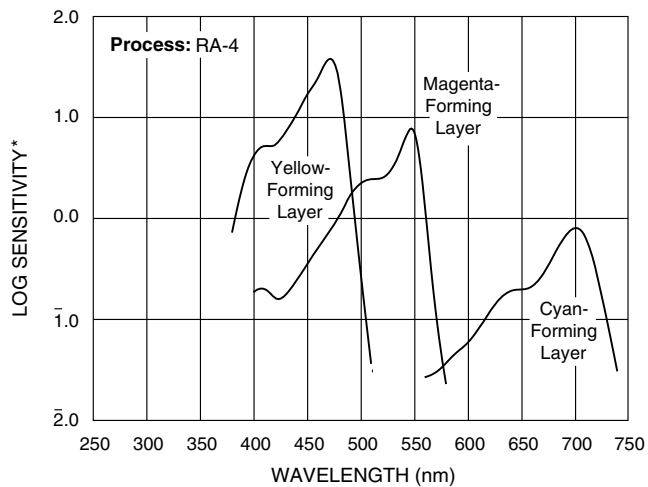


Spectral Dye Density Curves



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Spectral Sensitivity Curves



*Sensitivity = reciprocal of exposure (ergs/cm²) 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 publications to assist you with information on KODAK Papers and Chemicals. To learn more, visit www.kodak.com/go/colorpapers and www.kodak.com/go/photochemicals.

For the latest version of technical support publications for KODAK Products, visit Kodak on-line at:
<http://www.kodak.com>

If you have questions about KODAK Products, call Kodak.

In the U.S.A.:

1-800-242-2424, 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)

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