KODAK Premier Digital Paper

Kodak

TECHNICAL DATA / **COLOR PAPER**

April 2013 • E-4075

KODAK Premier Digital Paper is a thick, substantial paper that provides a premium look and feel to album prints, cards and invitations, calendars, keepsakes, and enlargements.

This paper delivers bright, saturated colors and flattering skin tones and is optimized to work well in both digital and optical imaging systems. It is available in a variety of roll sizes in E (fine lustre) and F (glossy) surfaces and 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. KODAK Premier Digital Paper features the following:

FEATURES	BENEFITS
• Thick paper base	• Exceptional, premium feel for prints and enlargements • Spectacular print quality
• Smooth, premium surface	• Improved gloss appearance
• Distinctive gold KODAK Premier Digital Paper backprint	• Reinforces paper is manufactured to Kodak's highest standards
• Deep, rich blacks	• More pleasing blacks
• Robust post-production performance	• Optimal choice for post process finishing such as laminating, mounting and folding • Ideal for photo books, albums, wraps, cards, etc.

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 172 (3½ x 564)	7.5	5.5	4
10.2 x 172 (4 x 564)	8	6	4.4
12.7 x 172 (5 x 564)	9	7	5
15.2 x 172 (6 x 564)	9.5	7.5	5
20.3 x 86 (8 x 282) 25.4 x 86 (10 x 282)	6	4.5	3
30.5 x 86 (12 x 282) 50.8 x 86 (20 x 282)	6	4.5	3
62.2 x 86 (24.5 x 282) 76.2 x 86 (30 x 282)	8	6	4
101.6 x 43 (40 x 141) 127 x 43 (50 x 141)	9	7	5

Warm-up times for pallets of paper will vary. For example, one pallet of 44 8.9 cm x 372 m (3½ 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

Handle this paper in *total darkness*. Be sure that your darkroom is lighttight. Eliminate any stray light from timers, LEDs, etc. EKTACOLOR Premier Digital Paper is sufficiently sensitive to photographic process lighting (safelights) that sensitometric shifts may occur before D-min (fog) changes are seen.

Note: Using a safelight *will* affect your results. *If absolutely necessary,* you can use a safelight equipped with a KODAK 13 Safelight Filter (amber) with a 7½-watt bulb. Keep the safelight at least 4 feet (1.2 metres) from the paper. Keep safelight exposure as short as possible. Run tests to determine whether safelight use gives acceptable results for your application. For information on safelight testing, see KODAK Publication No. K- 4, *How Safe is Your Safelight?*

EXPOSURE

Digital Printing

You can expose KODAK Premier Digital Paper with many types of digital printers. It performs well with the following Kodak digital printers:

- KODAK PROFESSIONAL LED Color Printer
- KODAK PROFESSIONAL LED II Printer 20P/20R
- KODAK PROFESSIONAL RP 30 Laser Printer
- KODAK PROFESSIONAL RR 30 Laser Printer
- KODAK PROFESSIONAL SRP 30 Laser Printer
- KODAK PROFESSIONAL RP 50 LED Printer

Initial conversion to this paper involves the recalibration of your printers. You will also need to download new aim files for the KODAK PROFESSIONAL LED Color Printer, KODAK PROFESSIONAL LED II Printer, and KODAK PROFESSIONAL RP 50 LED Printer. For up-to-date starting values for Kodak digital printers and other manufacturers' equipment, refer to the following document (available at wwwin.kodak.com/go/premierdigital):

- Calibration Routines for KODAK Premier Digital Paper, CIS-291

Optical Printing

Expose KODAK Premier Digital Paper in automatic printers and enlargers equipped with tungsten or tungsten-halogen light sources or photo enlarger lamps. Set up and balance the printer or enlarger according to manufacturer's instructions.

Do not use fluorescent lamps to expose this paper. Use a heat-absorbing glass to remove infrared radiation. Because voltage changes affect light output and color quality, use a voltage regulator.

Keep negatives and the equipment optical system clean. Mask negatives to eliminate stray light. You can use the white-light or tricolor exposure method.

Printer Setup

Update your printers by running your normal and slope printer control negatives to adjust printer slope. This will optimize the print quality due to the improved reciprocity of these papers.

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 Premier Digital 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), and typical home dark storage conditions (i.e., 20 to 23°C [68 to 73.4°F] and 50% relative humidity). Product modifications have provided an improvement in the fade neutrality when compared with previous papers.

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:

- 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 (such as glass) between the light source and the print.
- Keep the temperature and humidity as low as possible.
- For prints displayed behind glass, maintain a slight separation between the prints and the glass.
- Use album materials described in KODAK Publication No. E-30, *Storage and Care of KODAK Photographic Materials—Before and After Processing.*

Mounting/Laminating

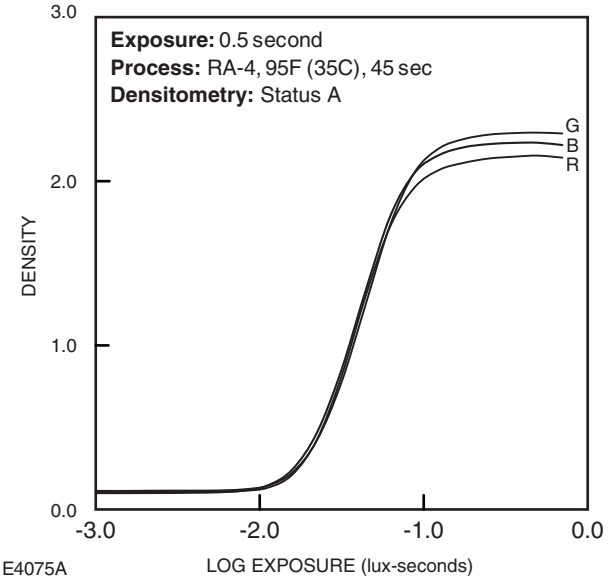
Prints can be mounted using a contact type adhesive or cement for cold mounting. In addition, prints can be mounted or laminated using pressure sensitive materials with a roller mounting or laminating system.

If the prints are to be displayed behind glass, maintain a slight separation between the print and the glass.

Mounting or laminating prints at high temperatures is not recommended.

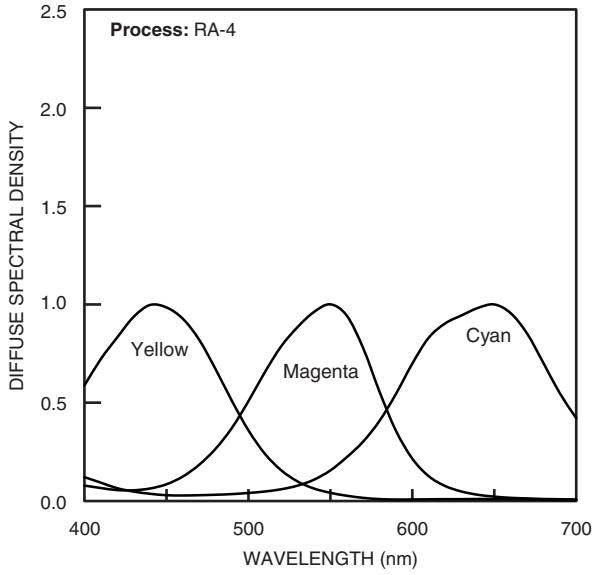
CURVES

Characteristic 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.

Spectral Dye Density Curves



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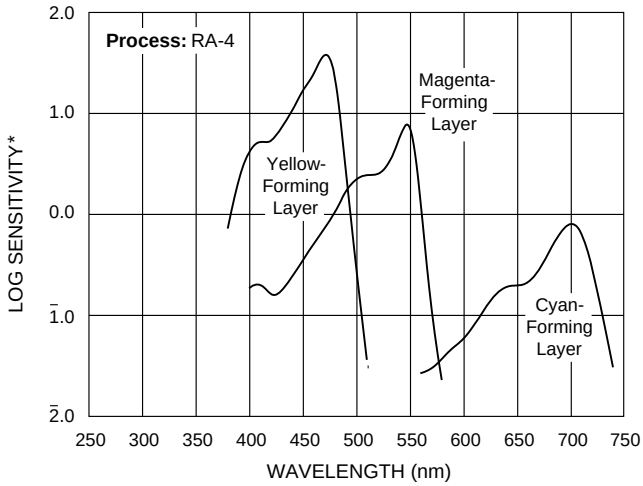
Spectral Sensitivity Curves



*Sensitivity = reciprocal of exposure (ergs/cm^2) required to produce specified density

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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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