

KODAK PROFESSIONAL Digital III Color Paper



—Paper for Digital Applications—

NOTICE

KODAK PROFESSIONAL Digital III Color Paper was discontinued starting August 1, 2003. Some sizes may remain available for a few weeks, dependent on country, until stocks are depleted.

KODAK PROFESSIONAL ENDURA Papers provide excellent alternatives for most of the sizes and surfaces. The family of award winning ENDURA Papers outperforms Digital III Color Paper due to its innovative emulsion technology that delivers:

- Reduced developer process sensitivity
- Enhanced image stability (100 years home display/200 years dark storage)
- Reduced developer process sensitivity
- Improved latent image keeping and shelf life performance

With three ENDURA Papers to choose from, there's a paper for every application.

- **KODAK PROFESSIONAL PORTRA ENDURA Paper**—A lower contrast photographic paper with moderate color saturation that's ideal for studio portraiture, wedding photography and school photography.
- **KODAK PROFESSIONAL SUPRA ENDURA Paper**—A moderate contrast photographic paper with higher color saturation that's well suited for studio and location portraiture, event photography and fine-art photography.
- **KODAK PROFESSIONAL ULTRA ENDURA Paper**—A higher contrast photographic paper with enhanced color saturation that's ideal for commercial applications that require bold colors, deep blacks and sharp text.

KODAK PROFESSIONAL Digital III Color Paper is a resin-coated, silver-halide color paper designed for digital printers that use LED, CRT, or laser printing devices. Because it is optimized for the short exposure times used in digital applications, it yields prints with reduced text (image) flare and better color reproduction than optical silver-halide papers used in digital applications. It is *not* designed for optical exposure, although it may be suitable for some optical printing applications. It replaces KODAK PROFESSIONAL Digital Paper, Type 2976.

Digital III Color Paper is ideal for producing outstanding digital portrait and commercial prints, school portraits, wedding and studio photographs, and large-format display prints.

Use KODAK EKTACOLOR RA Chemicals for Process RA-4 to process this paper.

FEATURES

- High D-max
- Sensitivity optimized for digital writers

BENEFITS

- Deep, rich blacks
- Improved color reproduction with digital printers from Durst, Cymbolic Sciences, Kodak, Gretag, and other manufacturers
- Significantly reduced text (image) flare

Compared to KODAK PROFESSIONAL Digital Paper, Type 2976, new Digital III Color Paper offers the following features:

- | | |
|-------------------------------|------------------------------|
| • Improved color reproduction | • Greater color range |
| • Improved D-min | • Clean, saturated yellows |
| • Improved D-max | • Cleaner, whiter whites |
| • Improved text clarity | • Rich blacks |
| | • Sharp, crisp text/graphics |

SIZES AVAILABLE

PROFESSIONAL Digital III Color Paper is available in roll and sheet sizes in E (fine lustre), F (glossy), and N (smooth lustre) surfaces. Sizes and CAT numbers differ from country to country.

Rolls in. x ft	Rolls cm x m	Surface	Spec No.	CAT No.
3½ x 577	8.9 x 176	E	224	871 5989
3½ x 577	8.9 x 176	F	224	896 8570
4 x 577	10.2 x 176	E	224	892 4664
4 x 577	10.2 x 176	F	224	180 0036
4 x 577	10.2 x 176	N	224	855 1392
5 x 577	12.7 x 176	E	224	855 6276
5 x 577	12.7 x 176	N	224	115 3006
6 x 577	15.2 x 176	E	224	178 8710
6 x 577	15.2 x 176	F	224	178 3380
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Rolls in. x ft	Rolls cm x m	Surface	Spec No.	CAT No.
8 x 262	20.3 x 88	E	224	828 5041
8 x 262	20.3 x 88	F	224	802 9134
8 x 262	20.3 x 88	N	224	860 6014
8 x 577	20.3 x 176	E	224	886 1064
8 x 577	20.3 x 176	F	224	889 7290
8 x 577	20.3 x 176	N	224	804 3499
8½ x 577	21.6 x 176	E	224	835 6297
8½ x 577	21.6 x 176	F	224	883 5910
10 x 288	25.4 x 88	E	224	898 7034
10 x 288	25.4 x 88	F	224	107 0523
10 x 288	25.4 x 88	N	224	191 6816
10 x 577	25.4 x 176	E	224	831 0930
10 x 577	25.4 x 176	F	224	838 3432
10 x 577	25.4 x 176	N	224	866 7743
11 x 288	27.9 x 88	E	224	846 6740
11 x 288	27.9 x 88	F	224	864 9865
11 x 288	27.9 x 88	N	224	109 2105
11 x 577	27.9 x 176	E	224	870 5204
11 x 577	27.9 x 176	F	224	823 1730
11 x 577	27.9 x 176	N	224	832 1770
12 x 288	30.5 x 88	E	224	171 5127
12 x 288	30.5 x 88	F	224	192 2434
12 x 288	30.5 x 88	N	224	800 5670
20 x 288	50.8 x 88	E	224	858 8626
20 x 288	50.8 x 88	F	224	116 6941
20 x 288	50.8 x 88	F	223	871 0675
20 x 288	50.8 x 88	N	224	831 8255
30 x 164	76.2 x 50	E	223	867 2842
30 x 164	76.2 x 50	F	223	892 6115
32 x 164	81.3 x 50	E	223	136 3928
32 x 164	81.3 x 50	F	223	895 6336
40 x 164	101.6 x 50	F	223	118 2252
41.375 x 164	105.1 x 50	E	223	879 4463
41.375 x 164	105.1 x 50	F	223	190 2527
50 x 164	127 x 50	E	223	841 6091
50 x 164	127 x 50	F	223	169 0551

Rolls cm x m	Surface	Spec No.	CAT No.
21 cm x 80 m	F	224	894 0223
21 cm x 80 m	N	224	895 8019
61 cm x 50 m	F	223	194 6094
61 cm x 50 m	N	223	830 5146
85 cm x 50 m	N	223	860 6261

Size in. x in.	Surface	Spec No.	CAT No.
8 x 10	F	100	177 0999
8 x 10	N	100	191 1700
11 x 14	F	50	127 3002
11 x 14	N	50	848 6417

STORAGE AND HANDLING

Store unexposed paper at 13°C (55°F) or lower in the original sealed package. High temperatures or high humidity may produce undesirable quality 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 paper from cold storage the day before you use it, or allow the paper to warm up for the appropriate time from the following table.

Warm-Up Times (Hours) to Reach Room Temperature of (21°C [70°F])			
Size	From a Storage Temperature of		
	-18°C (0°F)	2°C (35°F)	13°C (55°F)
8 x 10-inch (100-sheet box)	4	3	2
11 x 14-inch (50-sheet box)	3	2	2
20-inch x 164-foot roll (50.8 cm x 50 m)	8	7	4
30-inch x 164-foot roll (76.2 cm x 50 m)	10	8	5
40-inch x 164-foot roll (101.6 cm x 50 m)	11	9	6
50-inch x 164-foot roll (127 cm x 50 m)	12	10	7

Handle paper carefully by the edges. The paper is packaged with the emulsion side of all sheets facing in the same direction.

Note: If you use the cardboard box to store or transport this paper in white light, be sure to use the inner bag *and* the two-part cardboard box to protect the paper.

DARKROOM RECOMMENDATIONS

Handle this paper in *total darkness*. Be sure that your printing and processing darkrooms are lighttight. Carefully control stray light within your printing equipment.

Note: Using a safelight *will* affect your results. This paper is much faster than traditional color papers. It is very sensitive to safelights; sensitometric shifts can occur before you observe any changes in D-min.

EXPOSURE

Exposing Equipment

Expose this paper in various types of digital enlargers and printers, such as (but not limited to)—

- Durst Lambda and Gretag Printers
- Cymbolic Sciences International LightJet Printer
- KODAK LF CRT Color Printer
- KODAK LED Digital Color Printer
- Sienna Imaging Fotoprint Series

This paper is optimized for the short exposure times used with digital writers. Because there are numerous manufacturers and models of digital writers, we cannot provide starting-point recommendations for all equipment. We recommend that you test the paper and calibrate your printer to achieve optimum results. However, for Durst Lambda 130 or 76 and Cymbolic Sciences International Printers, you can use the charts that follow.

Note: This paper is *not* designed for optical printing. It *may* be suitable for some optical applications; however, this paper will not print at the same speed or color balance as papers designed for optical printing.

Calibration for KODAK PROFESSIONAL Digital III Color Paper on a Durst Lambda 130 or 76 Printer

Process	D-max	Basic Calibration (starting values)
RA-4	R = 235 G = 230 B = 225	Y = 95.5 M = 66.3 C = 0.0 D = 119.0

Calibration for KODAK PROFESSIONAL Digital III Color Paper on a Cymbolic Sciences International Printer

D-max			D-min			Exposure Levels		
Red	Green	Blue	Red	Green	Blue	Red	Green	Blue
2.40	2.40	2.25	0.08	0.08	0.04	-30	-50	-50

LATENT-IMAGE KEEPING

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

PROCESSING

Use KODAK EKTACOLOR RA Chemicals for Process RA-4 to process this paper in continuous or roller-transport processors. Use the same replenishment rates that you currently use to process KODAK PROFESSIONAL ULTRA III Paper. For more processing information, see KODAK Publication Z-130, *Using KODAK EKTACOLOR RA Chemicals*.

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

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 5000 ± 1000 K and a Color Rendering Index (CRI) of 85 to 100 (we recommend a CRI greater than 90).

Fluorescent lamps such as the cool white deluxe (made by several manufacturers) meet these conditions. You can also use warmer lamps such as the Phillips 5000 K Ultralume, or 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.

RETOUCHING

To retouch prints on this paper, use the same techniques and methods that you use with traditional color papers.

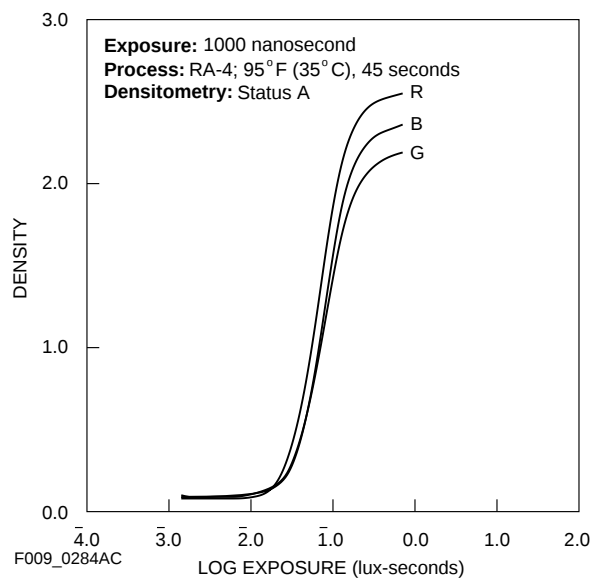
MOUNTING

You can mount prints with KODAK Dry Mounting Tissue, Type 2. The temperature across the heating platen of the mounting press should be between 79 and 93°C (175 and 200°F). Temperatures above 93°C (200°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.

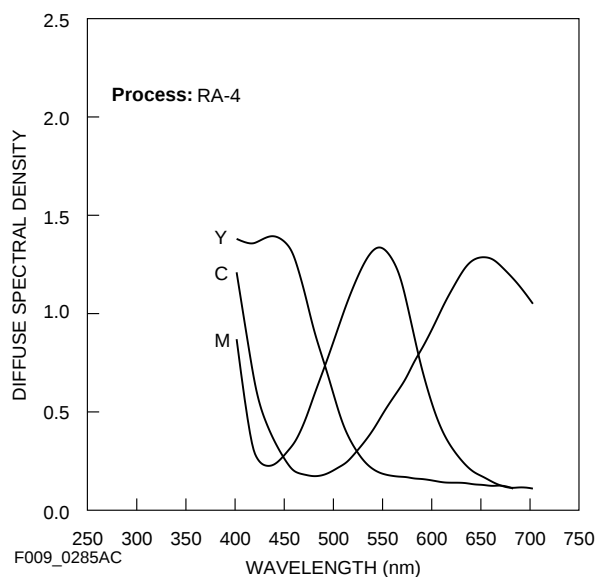
KODAK PROFESSIONAL Digital III Color Paper

CURVES

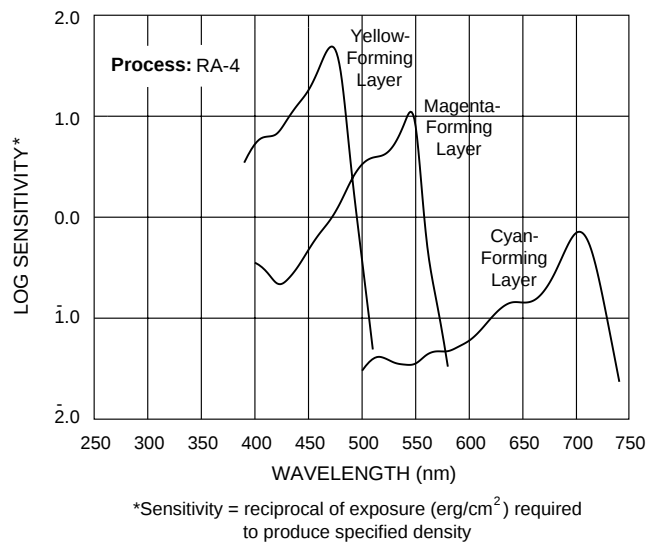
Characteristic Curves



Spectral-Dye-Density Curves



Spectral-Sensitivity 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.

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<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

9 a.m.–5 p.m. (Eastern time)

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