

Kodak Matchprint Inkjet Proofing Solution w/ Epson Stylus PRO 880 Printer on Kodak Matchprint Pro Coated SM240P, Type 1 for SWOP Coated #3

The IDEAlliance Print Properties Working Group has established a certification process for off-press proofs as input material to publications. In accordance with this process: "The appearance of a hard copy or monitor proof used in this application must have the ability to closely match specific CGATS or other documented characterization data sets within outlined tolerances. See further explanations and recommendations outlined on www.swop.org or www.gracol.org.

The following information is intended to assist producers and consumers in the use of vendor specified proofing materials in an off-press proof application:

I. Manufacturer

Eastman Kodak Company
343 State Street
Rochester, NY 14650 U.S.A.



Certified 09/29/08

II. Product

Kodak Matchprint Inkjet Proofing Solution w/ Epson Stylus PRO 880 Printer on Kodak Matchprint Pro Coated SM240P, Type 1 Media

III. Introduction

Kodak Matchprint Inkjet Proofing Solution is based on software developed by Kodak, consisting of innovative screening and calibration technologies, and a certified process incorporating Color Confirmation. Using Kodak Proofing Software, customers will benefit from excellent color accuracy, enhanced image smoothness, quick calibration tools and direct connectivity to Kodak Unified Workflow Solutions. A proof made with a Matchprint Inkjet Proofing Solution, to these Application Data Sheet specifications, is intended to simulate the characteristics of a production press operating within the GRACoL Guidelines for production printing.

IV. Control Guide

Specifications require that a control guide such as an ISO 12647-7 Digital Control Strip be supplied on every off-press proof. As a minimum, this guide should contain solids for the primary process colors (YMCK), two-color overprints (RGB) and a three-color overprint (YMC), as well as a 25%, 50%, and 75% tint in stated line screen resolution of each of the primary process colors and 3-color gray patches. All control guides should be checked for accuracy of the original values. Use and interpretation of a control guide is the responsibility of the creator.



V. System Components

Hardware and Softgoods:

- **Epson Stylus PRO** 880 Inkjet Printer with **Epson UltraChrome** K3 ink in Photo Black mode
- **Kodak Matchprint** Pro Coated SM240P, Type 1 Media
- An **X-Rite** DTP-41 Spectrophotometer with UV filter and white plaque DTP41-55 or **GretagMacbeth Spectroscan** Spectrophotometer with UV filter or **GretagMacbeth Eye-One** UV Cut Spectrophotometer can be used for calibration.

Software:

- **Kodak** Proofing Software for **Matchprint** Inkjet Solution, v3.2.2 and above.

Setup and Protocol:

- Refer to the **Kodak** Proofing Software's On-Line Help for the following procedures:
- Download the **Epson x880: Kodak Matchprint** Pro Coated SM240P installer from the ecentral.creo.com website. Installers can be found in the Self Support > Downloads area.
- Install the installer using the **Kodak** Proofing Software's Proofer Administrator.
- Calibrate the **Kodak Matchprint** Pro Coated SM240P, Type 1 Media configuration.
- Create a hot folder in the **Kodak** Proofing Software using the MX88_T1240_7_SWOPC3_1v1_a_U.dvl device link for color management.
- Alternatively, you can apply this device link in your **Kodak Prinergy**, **Prinergy EVO**, or **Brisque** Workflow System and send proofs from your workflow to the **Kodak** Proofing Software.

VI. Finishing Procedures

None required.

VII. Finished Proof Characteristics

A proof with the color characteristics referenced in Appendix 1 is to be expected when measured from the IDEAlliance ISO 12647-7 Digital Control Strip having been properly made to all the listed system components and finishing procedures.

Note: Three-color grays are comprised of Cyan, Magenta, Yellow: 75, 66, 66; 50, 40, 40; and 25, 19, 19 values.

All measurements for comparison to the **SWOP** 2006 C3 data were made using a calibrated **X-Rite** DTP70 Spectrophotometer (D50, 2 degree observer, UV included, with white backup). All tolerances reflect normal systems variability and assume the use of a calibrated measurement device.

VIII. Sample Proofs

Kodak has supplied three (3) sets of hard copy proofs for retention and has verified that they conform to this Application Data Sheet by an IDEAlliance certifying contractor.

Appendix 1
Characterization Data CIELab Values

IDEAlliance ISO 12647-7 Digital Control Strip 2007 for SWOP 2006 Coated #3

Patch ID Top	CIELab Data			Maximum
	L*	a*	b*	ΔE (ab)
A1	31.96	-21.01	-26.32	-
A2	56.99	-37.23	-44.95	5
A3	66.07	-27.13	-33.53	-
A4	80.52	-11.80	-15.33	-
A5	25.80	40.75	-2.90	-
A6	47.84	72.08	-3.11	5
A7	58.95	51.61	-4.46	-
A8	78.03	20.64	-3.18	-
A9	47.67	-4.29	45.76	-
A10	87.97	-5.03	88.10	5
A11	89.28	-5.09	62.78	-
A12	91.24	-2.93	25.28	-
A13	54.86	-51.51	-16.56	-
A14	38.04	51.19	-21.63	-
A15	69.74	23.44	67.23	-
A16	49.55	15.84	31.56	-
A17	40.89	33.29	12.00	-
A18	34.01	22.69	-16.52	-
A19	52.24	-17.96	25.88	-
A20	36.91	-2.13	-25.08	-
A21	90.46	-0.06	-0.21	-
A22	85.69	-0.18	-0.70	-
A23	75.49	-0.39	-1.61	-
A24	58.21	-0.51	-2.27	-
A25	39.28	-0.34	-1.80	-
A26	26.88	-0.14	-0.89	-
A27	18.06	0.01	-0.11	5

Patch ID Bottom	CIELab Data			Maximum
	L*	a*	b*	ΔE (ab)
B1	15.57	11.13	-25.12	-
B2	26.85	18.10	-44.32	6
B3	40.85	16.19	-34.08	-
B4	67.49	7.60	-17.17	-
B5	25.19	35.01	22.46	-
B6	46.86	66.21	45.03	6
B7	57.68	47.17	37.42	-
B8	77.94	18.06	18.43	-
B9	29.42	-36.88	12.46	-
B10	52.12	-64.75	24.83	6
B11	63.15	-41.26	21.06	-
B12	79.23	-15.72	8.94	-
B13	44.63	-16.62	-44.13	-
B14	47.87	69.02	16.49	-
B15	72.78	-24.61	60.84	-
B16	68.56	20.02	18.67	-
B17	52.11	36.50	27.30	-
B18	40.29	32.11	25.13	-
B19	45.95	-26.09	-3.01	-
B20	92.50	0.00	0.00	3
B21	90.08	-0.02	-0.08	-
B22	84.59	-0.04	-0.22	-
B23	73.54	-0.15	-0.48	-
B24	56.29	-0.48	-0.41	3
B25	39.80	-0.33	0.14	-
B26	24.79	0.22	-0.52	-
B27	8.91	-0.43	-0.21	-

Note: Color measurements comparing measured proof data to this reference data requires the use of a calibrated spectrophotometer.