

# Kodak Matchprint Inkjet Proofing Solution w/ Epson Stylus PRO 880 Printer on Kodak Matchprint Pro Publication SM245P, for SWOP Coated #5

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](http://www.swop.org) or [www.gracol.org](http://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.

### II. Product

**Kodak Matchprint** Inkjet Proofing Solution w/ **Epson Stylus PRO** 880 Printer on **Kodak Matchprint** Pro Publication SM245P 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 Publication SM245P 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 Publication SM245P installer from the [ecentral.creo.com](http://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 Publication SM245P 720x720 v1 media configuration.
- Create a hot folder in the **Kodak** Proofing Software using the M88\_P245\_7\_SWOPC5\_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 **GRACoL** 2006 C5 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 GRACoL 2006 Coated #1**

Patch ID Top	CIELab Data			Maximum
	L*	a*	b*	ΔE (ab)
A1	32.65	-22.26	-23.31	-
A2	56.56	-37.98	-40.93	5
A3	64.70	-26.67	-29.70	-
A4	78.29	-11.19	-11.42	-
A5	26.42	40.29	-3.23	-
A6	47.64	69.97	-3.54	5
A7	58.14	49.08	-2.95	-
A8	75.88	19.59	0.11	-
A9	47.09	-4.83	44.51	-
A10	85.43	-5.82	84.62	5
A11	86.28	-5.18	60.33	-
A12	88.09	-2.76	26.91	-
A13	54.38	-50.05	-13.62	-
A14	37.79	50.15	-21.11	-
A15	68.36	21.69	65.39	-
A16	48.86	15.14	31.31	-
A17	40.69	32.61	12.52	-
A18	33.04	22.15	-14.98	-
A19	51.08	-17.54	25.50	-
A20	36.75	-2.64	-22.16	-
A21	87.97	-0.06	3.85	-
A22	83.35	-0.16	3.31	-
A23	73.53	-0.34	2.37	-
A24	56.84	-0.35	1.34	-
A25	38.89	0.04	0.98	-
A26	27.07	0.55	1.06	-

Patch ID Bottom	CIELab Data			Maximum
	L*	a*	b*	ΔE (ab)
B1	15.76	11.76	-23.91	-
B2	26.54	18.56	-42.01	6
B3	40.30	15.39	-31.31	-
B4	65.80	7.14	-13.75	-
B5	26.49	34.78	21.45	-
B6	47.43	64.38	42.74	6
B7	57.01	44.95	36.24	-
B8	74.61	17.32	19.99	-
B9	30.65	-35.02	14.67	-
B10	52.26	-61.49	26.76	6
B11	61.52	-39.10	20.93	-
B12	76.68	-14.80	10.89	-
B13	44.23	-17.41	-40.21	-
B14	47.52	67.23	15.19	-
B15	70.77	-24.24	58.75	-
B16	66.70	19.12	19.70	-
B17	51.52	34.92	26.64	-
B18	40.31	31.25	24.75	-
B19	45.31	-25.37	-1.12	-
B20	90.06	-0.01	4.14	3
B21	87.67	0.00	3.75	-
B22	82.19	-0.02	3.09	-
B23	71.47	-0.07	2.12	-
B24	54.70	-0.44	1.24	3
B25	39.10	-0.23	1.19	-
B26	24.73	0.21	-0.12	-

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