

Kodak Matchprint Inkjet Proofing Solution w/ Epson Stylus PRO 800 Printer on Kodak Matchprint Pro Press White SM210P 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.

II. Product

Kodak Matchprint Inkjet Proofing Solution w/ Epson Stylus PRO 800 Printer on Kodak Matchprint Pro Press White SM210P 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 SWOP Guidelines for production printing.

IV. Control Guide

IDEAlliance specifies a control guide such as an ADS Proofing Certification 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.



ADS Proofing Certification Strip

V. System Components

Hardware and Softgoods:

- Epson Stylus PRO 800 Inkjet Printer with Epson UltraChrome K3 ink in Photo Black mode
- Kodak Matchprint Pro Press White SM210P 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, v3.1 and above.

Setup and Protocol:

- Refer to the Kodak Proofing Software's On-Line Help for the following procedures:
- Download the Epson x800: Matchprint Pro PressWhite SM210P 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 Matchprint Pro PressWhite SM210P 720x720 v1 media configuration.
- Create a hot folder in the Kodak Proofing Software using the M8_PW210_7_SWOPC36_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 ADS Proofing Certification Strip or a FOGRA Wedge 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

ADS Proofing Certification Strip SWOP 2006 Coated #3

Patch ID	CIELab Data			Maximum Delta E(ab)
	L*	a*	b*	
Paper	92.50	0.00	0.00	3
Yellow Solid	87.97	-5.03	88.10	5
Yellow 75%	89.01	-5.15	67.40	-
Yellow 50%	90.32	-4.34	43.74	-
Yellow 25%	91.46	-2.50	20.87	-
Magenta Solid	47.84	72.08	-3.11	5
Magenta 75%	56.81	55.45	-4.35	-
Magenta 50%	68.16	35.77	-4.37	-
Magenta 25%	80.49	17.04	-2.70	-
Cyan Solid	56.99	-37.23	-44.95	5
Cyan 75%	64.40	-28.99	-35.65	-
Cyan 50%	73.08	-19.51	-24.73	-
Cyan 25%	82.45	-9.86	-12.88	-
Black Solid	18.06	0.01	-0.11	5
Black 75%	39.28	-0.34	-1.80	-
Black 50%	58.21	-0.51	-2.27	-
Black 25%	75.49	-0.39	-1.61	-
Red Solid	46.86	66.21	45.03	6
Green Solid	52.12	-64.75	24.83	6
Blue Solid	26.85	18.10	-44.32	6
3 Color 100%	24.79	0.22	-0.52	6
3 Color 75%	39.81	-0.46	0.13	-
3 Color 50%	56.29	-0.48	-0.41	3
3 Color 25%	73.50	0.03	-0.29	-

Note: 3-color 25% and 75% CIELab values are calculations from the IT8/7.4 characterization data as these patches are not a subset of that data.



FOGRA Wedge Characterization Data CIELab Values for SWOP 2006 Coated #3

Patch ID	CIELab Data		
	L*	a*	b*
Top 1-1	56.99	-37.23	-44.95
Top 1-2	66.07	-27.13	-33.53
Top 1-3	76.68	-15.58	-20.13
Top 1-4	47.84	72.08	-3.11
Top 1-5	58.95	51.61	-4.46
Top 1-6	73.11	27.81	-3.93
Top 1-7	87.97	-5.03	88.10
Top 1-8	89.28	-5.09	62.78
Top 1-9	90.78	-3.69	34.25
Top 1-10	52.11	36.50	27.30
Top 1-11	39.97	20.57	14.49
Top 1-12	31.11	36.33	20.69
Top 1-13	32.17	39.98	-2.94
Top 1-14	49.02	0.90	37.50
Top 1-15	35.01	-34.17	11.23
Top 1-16	37.09	-24.36	-18.62
Top 1-17	22.79	7.70	-22.88
Top 1-18	85.69	-0.18	-0.70
Top 1-19	78.87	-0.35	-1.40
Top 1-20	65.26	-0.51	-2.24
Top 1-21	51.02	-0.51	-2.31
Top 1-22	35.26	-0.28	-1.63

Patch ID	CIELab Data		
	L*	a*	b*
Bottom 2-1	26.85	18.10	-44.32
Bottom 2-2	40.85	16.19	-34.08
Bottom 2-3	59.98	9.94	-22.00
Bottom 2-4	46.86	66.21	45.03
Bottom 2-5	57.68	47.17	37.42
Bottom 2-6	71.81	24.79	23.57
Bottom 2-7	52.12	-64.75	24.83
Bottom 2-8	63.15	-41.26	21.06
Bottom 2-9	74.98	-21.34	12.00
Bottom 2-10	68.56	20.02	18.67
Bottom 2-11	69.74	23.44	67.23
Bottom 2-12	47.87	69.02	16.49
Bottom 2-13	38.04	51.19	-21.63
Bottom 2-14	72.78	-24.61	60.84
Bottom 2-15	54.86	-51.51	-16.56
Bottom 2-16	44.63	-16.62	-44.13
Bottom 2-17	92.50	0.00	0.00
Bottom 2-18	85.38	-0.74	-1.07
Bottom 2-19	78.59	-1.59	-2.16
Bottom 2-20	64.76	-2.56	-2.79
Bottom 2-21	51.46	-3.19	-2.38
Bottom 2-22	39.01	-4.75	-2.42