Kodak Polychrome Graphics
A Subsidiary of Kodak

Proofing Systems

SWOP® Off-Press Proof Application Data Sheet

KODAK MATCHPRINT Inkjet

with EPSON 4800/7800/9800 Inkjet Printer

The SWOP Review Committee has approved the use of off-press proofs as input material to publications. SWOP specifications recommend that: "The appearance of an off-press proof used in this application must closely simulate a SWOP Certified Press Proof." See other explanations and recommendations as outlined on pages 21 and 41 of the 2005 edition of the SWOP specifications.

I. Manufacturer

Kodak Polychrome Graphics (A Subsidiary of Kodak)
401 Merritt 7, 3rd Floor
Norwalk, CT 06851

SWOP CERTIFIED SYSTEM
Certified - November 2005

II. Product

Kodak Matchprint Inkjet with Epson 4800/7800/9800 Inkjet Printer

III. Introduction

The history of Matchprint proofing products designed to meet the needs of the printing industry began in the 1960's when proofing films were introduced. Throughout this time, we have viewed color reproduction as a process rather than a series of independent events. We base this on the premise that an advertiser's major commitment to expense and image is determined at the print production site. For this reason, a proof, when made to the following guidelines, is intended to simulate the characteristics of a production press operating within the SWOP guidelines for production printing.

IV. Control Guide

SWOP specifies that a control guide such as a SWOP Proofing Bar be supplied on every off-press proof. As a minimum, this guide should contain solids for the primary process colors and two-color overprints, as well as a 25%, 50%, and 75% tint in each of the process colors. A control guide containing these imaging characteristics must be present on every proof. All control guides should be checked for accuracy of the original values. Use and interpretation of a control guide is the responsibility of the user.

V. System Components

Hardware:

- EPSON Stylus Pro 4800/7800/9800 (x800) inkjet printer with EPSON UltraChrome K3 ink in Photo Black mode
- KODAK MATCHPRINT Pro Publication SM245P inkjet media
- X-RITE AutoScan Spectrophotometer DTP-41 with UV filter and white plaque DTP41-55 or
  GretagMacbeth SPECTROSCAN with UV filter or
  GretagMacbeth EYE-ONE UV Cut

Software:

- KODAK Proofing Software for Matchprint Inkjet v3.x

Setup and Protocol:

Refer to the KODAK Proofing Software User's Guide for the following procedures:

Job Settings: Device Link: Mx8_PSM245P_7x7_SWOP_1v2.dvl

Calibrate the EPSON Stylus Pro x800 for use with KODAK MATCHPRINT Pro Publication SM245P inkjet media utilizing the Epson_x800_PSM245P_720X720_1 media configuration.

VI. Finishing Procedures

Not applicable.

VII. Finished Proof Characteristics

A properly made proof should have the following color characteristics:

Color	Density Absolute	TVI @ 50% (Dot Gain) (± 3)	Print Contrast @ 75% Tone (± 5)	Color (per CGATS.5)* L*	a*	b*	C*	h(ab)*	Maximum ΔE^*_{ab}
Yellow	0.99 (± 0.04)	16	28	85.1	-5.4	84.3	84.3	93.6	4
Magenta	1.60 (± 0.04)	20	39	46.9	71.4	-1.8	71.5	358.0	3
Cyan	1.27 (± 0.04)	21	32	57.5	-39.5	-41.4	57.0	226.0	3
Black	1.54 (± 0.06)	25	39	19.6	1.3	0.9	n/a	n/a	4

Background Density (+/-0.02): D_c = 0.10 D_m = 0.11 D_y = 0.13

*CIELabCh values represent measurements at target density.

The following data are for reference only in addition to the conformance information shown above.

Area	CIELab Values L*	a*	b*	C*	h (ab)*
Background/ Substrate	91.0	0.1	2.9	n/a	n/a
Black 25%	71.8	0.3	1.6	n/a	n/a
3-Color Gray 25%	71.3	-0.2	-0.3	n/a	n/a
Black 50%	53.9	-0.5	1.1	n/a	n/a
3-Color Gray 50%	53.2	-0.6	-0.3	n/a	n/a
Black 75%	40.3	-0.8	0.4	n/a	n/a
3-Color Gray 75%	39.2	-2.2	0.3	n/a	n/a
Red (overprint)	47.1	66.2	42.5	78.5	32.5
Green (overprint)	52.2	-63.6	29.2	70.0	155.2
Blue (overprint)	25.7	19.2	-41.3	45.5	294.5

Three-color grays made up of Cyan, Magenta, Yellow: 75, 63, 63; 50, 39, 39; and 25, 16, 16 values.

Note: All measurements were made using a calibrated Gretag™ SPM50 spectrophotometer (D50 illuminant, 2° observer, non-polarized). The density (Status T) and colorimetric values are absolute, base included, measured over a black backup. TVI's were calculated using the Murray-Davies equation (CGATS.4). All tolerances reflect normal systems variability and assume the use of a calibrated measurement device.

VIII. Sample Proofs

Kodak Polychrome Graphics has supplied sets of two proofs that conform to this Application Data Sheet to SWOP for their analysis and retention.

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