

SWOP® Off-Press Proof Application Data Sheet

KODAK APPROVAL Digital Color Proofing System

with D2212 Donor Set

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 47 of the 2001 edition of the SWOP specifications.

I. Manufacturer

Kodak Polychrome Graphics
401 Merritt 7, 3rd Floor
Norwalk, CT 06851

II. Product

KODAK APPROVAL Digital Color Proofing System.

III. Introduction

The KODAK APPROVAL Digital Color Proofing System is a digital color proofing system based on a unique, highly accurate laser transfer process. A four-color halftone image is created on a single intermediate sheet and transferred to a paper stock of the user's choice.

IV. Control Guide

SWOP specifies that a control guide such as a GATF/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 133-line screen ruling of 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. Proofing procedures are described in the KODAK APPROVAL Digital Color Proofing System User Guide.



V. System Components

For a KODAK APPROVAL Proof to be considered a "SWOP" proof, the following components must be used:

CAT Numbers /Description

Materials	Classic/PS	XP	XP4
Black Donor – DK02	862 4199	104 2910	181 6230
Cyan Donor – DC02	814 4628	192 5718	105 5003
Magenta Donor – DM02	802 1313	804 9355	816 0459
Yellow Donor – DY01	194 9668	164 6405	118 7038
Intermediate – I01	831 5582	816 0319	106 7560
Pre-laminate – P02	173 9671	832 3131	882 3791
Paper Stock	Monterey gloss 60#		
Laminator	800XL		

Target Input Values

Dot In	Cyan	Magenta	Yellow	Black
100	100.0	100.0	100.0	100.0
95	98.1	98.3	98.1	98.5
90	96.0	96.3	95.7	96.7
85	93.3	93.8	92.8	94.3
80	90.9	91.6	89.8	91.9
75	88.1	89.1	86.7	89.2
70	85.3	86.2	83.5	86.2
65	82.2	83.3	80.3	83.2
60	79.1	80.5	77.1	80.1
55	75.8	77.5	73.9	76.7
50	71.9	73.5	70.0	72.8
45	67.0	68.7	65.2	68.5
40	62.0	63.4	59.9	63.6
35	56.5	57.8	54.2	58.5
30	50.8	51.9	48.1	52.9
25	44.4	45.2	41.7	46.2
20	37.6	38.1	34.6	39.1
15	30.1	30.3	27.2	31.7
10	21.8	21.8	19.2	22.4
5	11.0	10.9	9.5	11.2
0	0.0	0.0	0.0	0.0

Output Parameters:

Line screen ruling: 133 lpi

Proofing sequence: KCMY

Screen Angles: Y=0, M=75, C=15, K=45

VI. Finishing Procedures

There are no additional steps required for finishing the proof.

VII. Finished Proof Characteristics

A properly made proof should have the following color characteristics:

Color	Density Absolute	TVI @ 50% (Dot Gain) (± 2)	Print Contrast @ 75% Tone (± 5)	Color (per CGATS.5)*					Maximum
				L*	a*	b*	C*	h(ab)*	ΔE_{ab}^*
Yellow	0.85 (± 0.05)	20.1	22	86.0	-6.11	80.69	80.9	94.3	4.0
Magenta	1.43 (± 0.05)	24.0	34	50.0	73.53	0.89	73.5	0.7	2.0
Cyan	1.32 (± 0.05)	22.7	33	54.6	-36.10	-40.80	54.5	228.5	2.0
Black	1.63 (± 0.075)	22.5	39	16.9	4.32	1.54	4.6	19.6	2.5

Background Density (+/-0.02): $D_c = 0.12$ $D_m = 0.12$ $D_y = 0.15$

*CIELabCh values represent measurements at target density.

The following supplemental colorimetric data is supplied for reference only.

Area	L*	a*	b*	C*	h(ab)*
Background/ Substrate	89.7	0.47	4.27	n/a	n/a
Black 25%	70.5	0.59	2.33	n/a	n/a
3-Color Gray 25%	70.8	-1.25	0.07	n/a	n/a
Black 50%	54.7	0.73	1.11	n/a	n/a
3-Color Gray 50%	53.7	-1.46	-0.05	n/a	n/a
Black 75%	37.9	1.59	0.61	n/a	n/a
3-Color Gray 75%	38.9	0.02	0.05	n/a	n/a
Red (overprint)	49.3	67.15	51.89	84.9	37.7
Green (overprint)	51.2	-65.46	26.29	70.5	158.1
Blue (overprint)	21.9	26.86	-43.66	51.3	301.6

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 X-Rite 528 spectrodensitometer (D50 illuminant, 2° observer, non-polarized). The density (Status T) and colorimetric values are absolute, base included, measured over a second layer of paper. 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 two proofs that conform to this Application Data Sheet to SWOP for its analysis and retention.

CALL TOLL-FREE **1-877-KPGraphics** (1-877-574-7274) FOR ADDITIONAL INFORMATION
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