AGFA Graphics

IDEAlliance® Off-Press Proof Application Data Sheet

Agfa :SherpaProof with :Apogee using :SherpaProof Base 250g on Epson Stylus PRO x880 series printers with :SherpaProof Inks.

GRACoL® Grade 1 Off-Press Proof Application Data Sheet

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

Agfa-Gevaert NV.
Septestraat 27
B2840 – Mortsel
Belgium

SWOP • GRACOL • IDEAlliance CERTIFIED PROOFING SYSTEM Print Predictability

Certified 10/22/08

II. Product

Agfa :SherpaProof system with :Apogee workflow system / Epson 4880-7880-9880 /SherpaProof Base 250 g satin / :SherpaProof Inks.

III. Introduction

The Agfa :SherpaProof family of inkjet digital proofing systems produces :SherpaProof color proofs for use in commercial offset printing applications by using ICC profiles created with :ColorTune color management software. Agfa Digital Proofing systems utilize :Apogee workflow software, :Qms software and a spectrophotometer for engine calibration and Proofer-Check consistency. The :SherpaProof system can be color calibrated to match other proofing systems, and a broad range of printing conditions. In addition to matching the CMYK color space of the target condition, the :SherpaProof system uses PANTONE® and user defined libraries for spot color rendering.

IV. Control Guide

IDEAlliance specifies a control guide such as an ISO 12647-7 Digital Control Strip 2007 be supplied on every off-press proof. As a minimum, any control guide used for proofing applications 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

The following components and limited processing procedures shall be used with the Agfa :SherpaProof System in order to achieve conformance with this Application Data Sheet:

- Agfa :Apogee Proof version 5.0 or later or any :Apogee workflow system with integrated Proofing option version 5.0 or later
- Epson Stylus Pro™ 4880/7880 or 9880
- Agfa Qms version 5.0 or later
- Agfa :ColorTune version 5.0 or later
- A spectrophotometer from either: X-Rite DTP41, DTP45, DTP70, EyeOne Pro, IO or Isis or GretagMacbetch ICColor, Spectrolino /Spectroscan
- Agfa :SherpaProof base 250 gram satin
- Agfa :SherpaProof Ink: Agfa Epson Ultrachrome K3 Ink™ (8 inks) with Photo black and Vivid Magenta.

Procedure for making proofs for use in GRACoL® applications with the Agfa :Sherpa Proofing System:

- Load the:SherpaProof base on the Epson Stylus Pro™ 4880/7880/9880 Use the :SherpaProof Ink (Agfa Epson UltraChrome K3 ink™)
- Calibrate the Epson Stylus Pro™ Engine with :Qms as outlined in the :Qms user documentation.
- Perform a “proofer check” calibration check as outlined in the :Qms user documentation.
- If Calibration is good :Qms will indicate that a “confidence score” of higher then 97.5% is reached.

In :Apogee generate a Jobticket in which the following ICC profiles are enabled for the proofing flow:
For detailed procedure follow outlines in Certified Proofing Toolkit version 5.0 for Epsonx880

- for the press-profile: Agfa GRACoL2006 Coated1v2.icc
- for the Proofer-profile: 8P-AMDP250-UHQ-720.icc

Alternatively a device link profile can be used that combines all necessary profiles and CMM settings, eg.:

- DL-E7880-GRACoLCoated1-720UHQ.icc

Key parameters are: Advanced CMM and the use of Closed Loop Optimized proofer profiles with Absolute Colorimetric Render Intent.

VI. Finishing Procedures

Allow proofs to dry for approximately 15 minutes prior to making critical color judgments, or measurements. No further finishing is 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 2007 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 GRACol2006_Coated1 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

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

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Appendix 1
Characterization Data CIELab Values

IDEAlliance ISO 12647-7 Control Strip 2007 for GRACoL 2006 Coated #1

Patch ID Top	CIELab Data			Maximum
	L*	a*	b*	CIE ΔLab
A1	30.05	-22.65	-28.82	-
A2	54.96	-37.12	-50.00	5
A3	66.60	-25.13	-37.01	-
A4	82.64	-9.99	-17.85	-
A5	26.45	41.59	-1.73	-
A6	47.93	74.11	-3.01	5
A7	60.35	51.93	-5.67	-
A8	80.03	20.38	-5.35	-
A9	48.53	-5.30	49.19	-
A10	88.94	-5.02	93.17	5
A11	90.56	-4.57	63.58	-
A12	92.84	-2.51	24.77	-
A13	52.53	-53.19	-19.34	-
A14	37.89	52.56	-22.07	-
A15	70.88	22.91	72.40	-
A16	50.86	15.13	33.06	-
A17	42.17	33.42	13.25	-
A18	34.60	23.09	-17.15	-
A19	52.45	-18.04	26.12	-
A20	36.56	-1.43	-26.62	-
A21	92.88	-0.08	-1.96	-
A22	87.93	-0.20	-1.98	-
A23	77.43	-0.40	-1.93	-
A24	59.77	-0.53	-1.61	-
A25	39.75	-0.57	-1.02	-
A26	25.57	-0.21	-0.53	-
A27	14.95	0.19	-0.14	5

Patch ID Bottom	CIELab Data			Maximum
	L*	a*	b*	CIE ΔLab
B1	15.18	8.84	-24.61	-
B2	24.13	17.20	-46.14	6
B3	40.84	17.09	-35.77	-
B4	69.57	8.37	-19.26	-
B5	26.22	35.38	24.54	-
B6	47.37	68.25	48.79	6
B7	59.09	47.55	39.25	-
B8	78.62	17.92	18.20	-
B9	28.47	-39.38	12.04	-
B10	50.12	-68.43	25.00	6
B11	62.69	-41.44	20.96	-
B12	80.64	-14.75	8.25	-
B13	42.57	-16.27	-48.19	-
B14	48.28	70.95	17.76	-
B15	72.70	-25.21	65.09	-
B16	70.23	19.71	18.63	-
B17	53.40	36.61	28.63	-
B18	41.61	32.01	26.83	-
B19	45.40	-26.20	-3.82	-
B20	95.00	-0.02	-1.96	3
B21	92.43	0.19	-2.06	-
B22	86.74	0.31	-2.04	-
B23	75.52	0.07	-1.50	-
B24	57.54	-0.12	-1.44	3
B25	39.39	-0.30	-0.55	-
B26	23.00	0.17	-0.25	-
B27	8.46	0.34	0.44	-

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