



*EfiColor
Profile
Cards*



EFICOLOR

Anatomy of a Sample Profile Card

The fields and regions in the following sample profile card are numbered and defined below for easy reference. As you review the information in the actual EfiColor profile cards included with this package, you may wish to refer back to this sample for more information.

- 1 EfiColor profile name** and a brief introduction to appropriate device setup.
- 2 Machine Description:** Information about the model and manufacturer of imagesetters, controllers, proofers, copiers and digital output devices.
- 3 Folder Name:** Name of the profile folder in the EfiColor DB folder.
- 4 Profile Version:** Current version of the EfiColor profile.
- 5 Colorants:** Refers to the color primaries of the device. For example, a 4-color cyan, magenta, yellow, and black ink process is indicated as "CMYK."
- 6 Substrate/Paper:** The base material receiving the colorants. Off-press proofing systems use the term substrate (or base). "Paper" is used generically for all other processes.
- 7 Inks/Toner:** The device-specific ink or toner names used at the time of characterization.
- 8 Finish Name:** The name of the finish used to seal an off-press color proof.
- 9 Halftone Screen Parameters:** The screen frequency, angle and dot shapes used at the time of characterization.
- 10 Calibration Information:** Information appropriate for calibration software supporting EfiColor profiles. Includes colorant responses (linear or not, with respect to dot area or density) along with maximum densities (Dmax) where appropriate.
- 11 Driver Software:** Software used to download digital files to the device. Examples are Macintosh Chooser drivers and vendor supplied utilities.
- 12 Driver Setup:** The driver configuration at the time the device was characterized. Identifies specific settings or tables used.
- 13 Maximum Ink Coverage:** The maximum total ink coverage of colorants allowed by the specific profile. For a 4-color device achieves 400% coverage with 100% cyan, 100% magenta, 100% yellow, and 100% black.
- 14 GCR Levels (*Default):** Gray component replacement levels available for this device. GCR is a technique for removing some or all of the cyan, magenta and yellow colorants that comprise the gray component of a color. Percentages shown are equivalent for the terms used in programs that support EfiColor profiles (Nominal and/or None, Low, Medium, High, and Maximum).
- 15 General Information:** Printing information specific to the profile, including driver software setup.
- 16 Notes:** Any additional information for obtaining consistent color output.

Sample Profile Card Front

1 *SWOP-Coated Profile*

The *SWOP-Coated* profile is appropriate for 150 lpi commercial web and sheet-fed press publications. Generally speaking, this implies higher quality paper, higher screen frequency, and lower dot gain when compared to publication output using the *SWOP-Uncoated* profile.

Profile Characterization Parameters

2 *Machine Description*

Model/Imagesetter	Scitex Raystar
Manufacturer	Scitex
Proofer/Copier	3M Matchprint II
Manufacturer	3M

Characterization Description

3 Folder Name	swop_coated				
4 Profile Version	1.3				
5 Colorants	CMYK				
6 Substrate/Paper	3M Commercial Base				
7 Inks/Toner	3M SWOP ink set				
8 Finish Name					
9 Halftone Screen Parameters		C	M	Y	K
	Frequency	150.92	150.92	150.92	150.92
	Angle	82.5	52.5	7.5	112.5
	Dot Shape	round	round	round	round
10 Calibration	Dmax	1.32	1.47	0.98	1.90

Imagesetter films linear with respect to dot area percentage

11 *Driver Software*

12 *Driver Setup*

13 Maximum Ink Coverage	300%				
-------------------------	------	--	--	--	--

14 GCR Levels (*Default)	Nom.	None	Low	Med.	High	Max.
		0%	25%	50%	75%*	100%

Sample Profile Card Back

15

General Information The color information that comprises the *SWOP-Coated* profile is derived from carefully produced separation films and off-press color proofs. Examples of imagesetters used to create separation films include: Linotronic 330, AGFA SelectSet 5000 and Scitex Dolev. Off-press laminated color proofs are created using systems such as Du Pont Cromalin, 3M Matchprint, Fuji ColorArt and Agfa PROOF. To achieve best results, production conditions must be as close as possible to the ones described in the profile card.

16

Notes It is important to recognize that individual press, ink and dot gain variations may significantly affect the final results. In some cases, a custom calibration or characterization procedure is necessary to ensure best results. Since optimal halftone settings are often imagesetter and occasionally image specific, consult your service bureau regarding applicability of the settings indicated in the Halftone Screen Parameters entry for this profile. Imagesetters are assumed to be linearly calibrated with respect to dot area percentage to within 1-2%. The separations created for characterization were film negative, emulsion down. Proofing system results are significantly affected by the choice of substrate, finish and ink sets. When printing on coated stock, request a commercial base for your proof. The off-press proof simulates a 20-23% dot gain (manufacturer specified).

© 1992 Electronics for Imaging, Inc. All rights reserved. Eficolor, the Eficolor logo, EFI Fiery, Fiery, and Fiery ColorLaser are trademarks of Electronics for Imaging, Inc. Other terms and product names may be trademarks or registered trademarks of their respective companies and are hereby acknowledged.
Part Number: 0892



Fiery/Xerox 5775 Profile

The Fiery/Xerox 5775 profile is designed for the contone mode of the EFI Fiery 125i color server attached to a Xerox 5775 full-color copier. Use of high quality white paper stock and manufacturer supplied toners is assumed.

Profile Characterization Parameters

Machine Description

Model/Imagesetter	Fiery 125i color server
Manufacturer	Electronics for Imaging, Inc.
Proofer/Copier	Xerox 5775
Manufacturer	Xerox Corporation

Characterization Description

Folder Name	xerox_5775_ct
Profile Version	1.3
Colorants	CMYK
Substrate/Paper	Weyerhaeuser First Choice, White, 24 lb.
Inks/Toner	Xerox 5775 toner (cyan: 6R325, magenta: 6R327, yellow: 6R326, black: 6R324)

Finish Name

Calibration	C	M	Y	K
	Dmax	1.87	1.80	1.11
Non-linear in density				

Driver Software	LaserWriter driver, version 7.0
-----------------	---------------------------------

Driver Setup	Print dialog: Color/Grayscale
--------------	-------------------------------

Maximum Ink Coverage	240%
----------------------	------

GCR Levels (*Default)	Nom.	None	Low	Med.	High	Max.
	100%*					

General Instructions To achieve the best results with the Fiery/Xerox 5775 profile, please ensure that you are using the Profile Characterization Parameters described on the front side of this card. In particular, assure that the Fiery is set to Contone mode using the F2 function key, and remember to set the Fiery 5775 controller to the Photo Tone Reproduction Curve (TRC) mode with the Controller Setup menu. Also, enable the Color/ Grayscale option of the LaserWriter (version 7.0 or later) Print dialog box.

Notes To ensure consistent output quality, it is important to schedule regular maintenance visits and to keep maximum densities close to those indicated in this profile card.

© 1992 Electronics for Imaging, Inc. All rights reserved. EfColor, the EFI Fiery, and Fiery are trademarks of Electronics for Imaging, Inc., and may be registered in certain jurisdictions. Fiery is registered with the U.S. Patent and Trademark office. Xerox is a registered trademark of Xerox Corporation. Other terms and product names may be trademarks or registered trademarks of their respective companies and are hereby acknowledged. Part Number: 40601014

