



PANTONE® CMYK COLOR GUIDE

coated, uncoated



- Introduction of a unified product that will satisfy U.S. and Euro print conditions
- Color system to enable confident use of 4-color process colors in offset lithographic printing and unambiguous communication of color between designer and printer

Product Description

- Reference tool for PANTONE 4-color process system in a fan guide format
- 2,868 PANTONE process colors
- 2 columns and 8 rows of individual colors on a page - total 16 colors per page
- CMYK values printed beneath each color
- Available on coated and uncoated papers

Features

- Printed using ISO standard CMYK inks and ISO print standards where applicable
- Useful regardless of geography
- Chromatically arranged to easily find desired colors
- Larger color area than previous guides/color flows light to dark
- FSC certified papers used throughout
- Printed at industry standard 175 line screen
- Delta E 1.75 between colors makes colors distinct and printable
- G7 workflow was used
- Color identification numbers are ordered sequentially by page number and sequence on the page (ex. 2-1, 2-2,...2-14, 2-15, 2-16) to make locating and identifying colors straightforward

PRINTING NOTES

Workflow

- This guide was produced using a complete digital workflow.

Screen Tints

- The digitally-produced screens with Euclidean dots were output
- Used CTP technology.

Color Ink Set

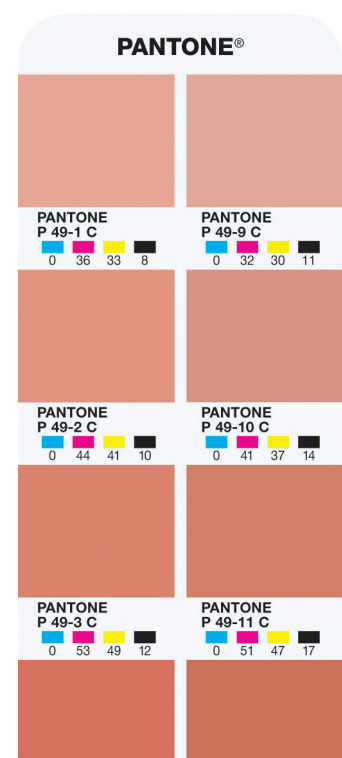
- Ink set conforms to ISO 2846-1.

Print Parameters

- Where applicable, conforms to ISO-12647-2:2-2004/Amd 1:2007.

Print Rotation

Print Rotation	Screen Angles
1. Black (K)	45°
2. Cyan (C)	105°
3. Magenta (M)	75°
4. Yellow (Y)	90°





PANTONE CMYK COLOR GUIDE coated, uncoated (continued)

Target Densities

	Coated	Uncoated
Black (K)	1.75	1.25
Cyan (C)	1.40	1.15
Magenta (M)	1.40	1.15
Yellow (Y)	1.00	.90

- Measurements were taken with non-polarized ISO Status T reflection density filters.
- Establish dry-back effects before utilizing these values.

Paper Stock

- Coated: #1 grade 100 lb gloss text stock (148 g/m²)
- Uncoated: premium grade 80 lb text stock (133 g/m²)

Line Screen

- 175 lines per inch/69 lines per cm

Tone-Value Increase Targets

(K,C,M,Y)	Coated	Uncoated
25%	12 +_ 3%	20 +_ 3%
50%	16 +_ 3%	23 +_ 3%
75%	12 +_ 3%	20 +_ 3%t

Gray Balance Combination

Tone	C	M	Y
Mid	50%	40%	40%

Print Variables

Many variables in the printing process may affect color reproduction, including:

- Output devices
- Dot shape and dot gain
- Print rotation, form layout
- Color registration
- Ink color accuracy/density
- Variations in paper color
- Quality and texture