



P.A.S.S. Production Aim Points - Snap Shot

Here's a quick and ready reference. For consistent press performance and predictable results shoot for these aim points and "PASS" with flying colors.

Dry Solid Ink Density (SID)	Offset Newspapers
Cyan	.90
Magenta	.90
Yellow	.85
Black	1.05
Tolerances	+/- 0.05

(Dry SID densities measured as absolute; paper density included black backing)
 Range of .06 density units between all four colors is recommended for best results.

Dot Gain/TVI Measurements at Different Tonal Values

Dot Gain/TVI Offset (100 lpi)	25	50	75
Cyan	24%	26%	17%
Magenta	24%	26%	17%
Yellow	24%	26%	17%
Black	24%	26%	17%
Tolerances	+/- 3%	+/- 4%	+/- 3%

Range of 5% between all four colors at 50% is recommended for best results.

Recommended Printing Sequences

Offset
Cyan-Magenta-Yellow-Black or Black-Cyan-Magenta-Yellow

Reference Values for Substrate

	L*	a*	b*
SNAP Stock	82.0	0	3

Tolerances for the colour of the print substrate

	ΔL*	Δa*	Δb*
Proofing should be within	3	2	2
Production should be within	3	1	1
Production shall be within	4	2	2

L*, a*, and b* and brightness measured according to 4.3.1.1 of ISO 12647-3 (2° observer, illuminant D₅₀, 45°/0° or 0°/45°, black backing).

CIE Lab L*, a*, b* Aim Values

	L*	a*	b*
Cyan	57	-23	-27
Magenta	54	44	-2
Yellow	78	-3	58
Black	36	1	4
Cyan + Yellow	53	-34	17
Cyan + Magenta	41	7	-22
Magenta + Yellow	52	41	25

Values come from ISO 12647-3. They represent offset inks and paper only. Data for flexographic inks were not available at the time of publishing. Measurements are according to ISO 13655 (2° observer, illuminant D₅₀, 45°/0° or 0°/45°, black backing).

Registration

Register of any color to black must not exceed "0.012" in any direction, including lateral, circumferential, or skewed. Further, register between any two colors must not exceed 0.015" in any direction, including lateral, circumferential, or skewed. The value of 0.015" is equivalent to 1.5 rows of dots @ 100 lpi, 90° angle.

To learn more go to www.snapquality.com