



## Fingerprint Guideline v 1.0

### General matters ...

PaC.Space is not an output (print) colour space, but an idealized CMYK working colour space for packaging gravure. The aim of this document is to ensure fingerprinting gets you as close as possible to the idealized PaC.Space working colour space. Obviously a 100% match would be ideal, but rather unlikely due to the complexity and variables found in packaging gravure.

In consequence, besides to the ambition to match the PaC.Space working colour space closest possible, the balance and correlation between ink system, ink lay-down, cylinder properties or other machine parameters needs to be maintained as well. The idea is to achieve the best possible compromise between of the various targets. In other words: The fingerprint's aim is not to match a single objective 1:1, but to find the best overlap for all the technical requirements.

This process may require subjective decisions that need to be taken, calling for well-trained professionals with a holistic view to lead the fingerprint exercise on the press.

In addition to the preparation of the ink (... according to below target values) it is recommended to have the following components available at the press on the day of the fingerprint:

- PaC.Space reference proof of the fingerprint test form (created with the PaC.Space Proofer profiles)
- Calibrated Spectrophotometer / Densitometer
- PaC.Space Fingerprint Guideline

### Reference Values ...

The density and colour values indicated below shall be considered as guideline only. They are reference values, not exact target values.

Ideal fingerprint results shall be achieved by using inks with chromaticity / Lab values closest possible to those mentioned in Table 1.1., where the focus is on primary colours only. Please ensure you carefully monitor the grey balance as well as densities and dot gains during print. For this we have also supplied corresponding reference values for orientation.

The tolerances indicated in Table 1.1 are based on a typical white substrate such as white paper or white film. Obviously other / greater tolerances for the primary colours would be required if printing substrates with varying Lab-values would be used.

### Lab values ...

	L	a	b	Toleranz DE 76
C	54,91	-40,50	-50,89	< 5,00
M	47,42	79,44	-11,32	< 5,00
Y	89,50	-6,22	102,47	< 5,00
K	15,07	1,17	3,45	< 5,00

Table 1.1 Measurement conditions: D50 / 2° / ABS / NO Pol Filter / White Backing

### Densities ...

	D
C	1,55
M	1,35
Y	1,30
K	1,80

Table 1.2 Measurement conditions: DIN / Paper / NO Pol Filter / White Backing

### Dot Gain ...

	100%	70%	50%	30%	0%
C	0%	18%	23%	20%	0%
M	0%	17%	21%	17%	0%
Y	0%	15%	19%	15%	0%
K	0%	18%	23%	20%	0%

Table 1.3 Calculated according to Murray-Davis