

# Data parameters for offset printing

## Colour

Print files must be supplied in CMYK (images) or Pantone spot colour mode. (colour areas, logos). It is of course possible to have CMYK and Pantone in one file.

## Images

All images and photos must be in CMYK and have sufficient resolution (from 300 dpi upwards in 100% size) The conversion of images from working RGB to output CMYK must be done via the icc profile that corresponds to the material being printed.

## Text and vectors

Text, logos, tags must be sent in curves (vectors). Here it is necessary, due to the printing technology, to set the Trapping for vector objects to at least 0.144 pt. The minimum printable line thickness is 0.1 pt. in one colour. Negative lines can be printed from 0.15 pt.

Negative footer and light font cuts up to 6 pt should be avoided. Multi-colour fonts are possible from size 7 pt. Trapping should be set to 0.144 pt. Please send black text, barcodes and QR codes only in 100% black (CMYK 0 0 0 100). Overprinting should be set on all black objects.

**Never set the overprint to WHITE, DIRECT or PANTONE colours!**

**The print data must be sent as a PDF file in the PDF/X-1a standard.**

These parameters include an appendix with definitions of dimensions, overlaps and solutions for linking graphics between productions.

In case of any doubts or questions, please contact the graphic studio:

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