MATERIAL INSTRUCTIONS

OFFSET/ DIGITAL PRINTING

When submitting printable PDF materials, please check the following:

1. IMAGE RESOLUTION

Continuous-tone image resolution should follow the below-mentioned suggestions for 1:1 sized images.
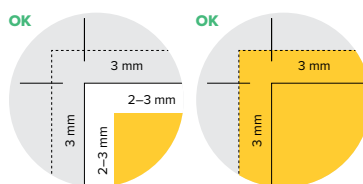
- **Digital Printing 200–300 ppi**
- **Offset 200 ppi**

For **line art**, the recommended resolution is **1200 ppi** for all printing methods.

2. BLEEDS 3 MM

All materials must come with 3 mm bleeds. Without bleed margins, there may be unwanted white areas on the edges of the printed product.

3. FONTS

- Fonts must be complete and embedded entirely in the PDF.
- Fonts included in graphic files are most likely to work when converted into outlines.
- Negative type (white text on a coloured background) smaller than 10 points must be confirmed with the printer due to a possible misalignment affecting the readability of the text.

4. LINE THICKNESS

The smallest recommended line thickness is 0.25 pt. Narrow lines should not be used for multi-colour, rasterised or reverse printing.

5. COLOURS

For four-colour works, we recommend that you define the colours as process colours (CMYK); only any additional colours are defined as SPOT/PANTONE colours. For digital printing, you can also use RGB colours in the images: Our default profile for RGB images is sRGB. Be sure to always embed RGB and CMYK profiles in PDF files.

Our recommended CMYK colour profiles:

- coated paper: **PSO Coated v3, FOGRA 51**
- uncoated paper: **PSO Uncoated v3, FOGRA 52**

If you are using RGB materials, we recommend that you submit a layout package.

SUFFICIENT IMAGE RESOLUTION

ALWAYS REMEMBER BLEEDS

IF YOU HAVE QUESTIONS, PLEASE ASK

Grano
Kuortaneenkatu 1
00520 Helsinki
+358 29 1800 400
We are open Mon–Fri 8 am–4 pm
grano.fi

6. CREATING A PDF

Regardless of the printing method, please note the following:
- Always include **cutting lines** in the PDF (with a 3 mm margin)
- The material must be **centred on the page**
- All pages must have the **same size** and **orientation**

7. OVERPRINT

Please do not use overprinting for any other colour than black.
Ask for more information if you would like to use overprinting for other colours.

8. FOUR-COLOUR BLACK

Please do not use four-colour black (= Registration black of layout programs).

9. DIE CUTTING

- Die cut materials must have cut lines with the **spot colour "Cut_1" (M100)** and **overprinting**. Ask for further instructions if necessary.
- The die cutting line must be **a single continuous line**, not several separate pieces.
- If possible, submit the material **with and without the cut line**, making it possible to use the material with as many different printing methods as possible.

10. MATERIAL SUBMISSION

Please submit the material as agreed beforehand. We recommend that you pack the material into one .zip file.

FTP submission
- Works both with a web browser and an FTP program.
- **https://transfer.grano.fi** – for temporary material transfers, the user can log in with a public username. Both the username and the password are "vieras".
- **After the transfer, please notify your contact person by e-mail.**