

REPRO GUIDELINES TRANSFERRING DATA

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broschek rollenoffset GmbH
Spenglerstraße 90
23556 Lübeck
DEUTSCHLAND
Tel.: +49 451 89093-110
Fax: +49 451 89093-101
dialog@broschekrollenoffset.de
www.broschekrollenoffset.de

: GENERAL

In this document, we would like to inform you of our guidelines for transferring data. It is important for us that you familiarise yourself with our processing standards to avoid unnecessary delays and enquiries. The basis for our guidelines is the digital data delivery for the offset process standard 2008 of the Bundesverband Druck und Medien e.V., (The German Printing and Media Industries Federation). We hope that we have detailed all the important information for your production in the following sections.

: GENERAL INFORMATION FOR DATA TRANSFER

| | |
|-----------------------------|---|
| Data transfer format | Data transfer format is Composite PDF. Rotogravure formats as well as native (open) data available on request. |
| General | As Composite PDF up to 1.6 with Adobe Acrobat Distiller Version 5.0 up to 9.0. Please check our distiller settings on the following page: http://www.schlottgruppe.de/en/95.html Each document should have only one page. |
| File naming | To avoid problems during processing, please name your files according to the format given below: <i>Page_Jobname_Version.pdf.</i> Please do not use special characters or spaces between words. For additional deliveries, please notify us by telephone, Email or via Fax during business hours. For delivery of correction pages, please attach a description of the corrections with date. The correction pages must be marked in such a way. |
| Data carrier | CD-ROM or DVD |
| E-mail | vorstufe@broschek.de (not over 10MB!) |
| FTP | FTP address after consultation with our pre-press (Phone +49 451 89 093 111) or after consulting your customer adviser. |

Important Only PDF files can be stored on our FTP server. The filename must **not** contain special characters or blanks, except _ (underscore). The filename must end with **".pdf"**.

: GENERAL INFORMATION FOR CREATING LAYOUTS

Layout Process-specific folding and cutting tolerances can cause unintentional cutting of the text logo or image elements with full utilisation of net format. Please consider 3 mm distance to the end sections of the page with regard to the above elements. As we impose your documents electronically, it is important for the pages to always be at the centre to the gross format (document size). If this is not the case, position deviations can occur in the folded sheet.

Trims Document size corresponding to the net format to be produced plus 4.0 mm bleed. Set trim marks at least 2.00 mm remote from net format.

Fonts Do not make any electronic font changes, i.e. do not set bold or italics from the font style menu, rather always use the corresponding original font. Avoid True Type Fonts. Please do not use hairlines.

: GENERAL INFORMATION FOR REPRODUCTION

Colour settings Colour mode is CMYK.

Delete all other special colours or convert to CMYK.
Please check the pre-settings for imprints and cut outs.
Elements with 100% black are generally produced as "imprinted". To spare black elements (text, surface, graphics), create them with black 100%, cyan 1%, magenta 1% and yellow 1%.

Full black surfaces Full black surfaces must be highlighted with 30% tone in cyan and 1% magenta and yellow each (cut-out-function, see colour settings) for printing in multiple colours.

Resolutions Colour pictures in 305 dpi.
Grey pictures in 305 dpi.
Lines in 1200 dpi.

| | | | |
|------------------------|---|--------|---------------------|
| Maximum ton | Web offset < 300% (>300% = colour does not dry up completely and smudges or sticks together in the folded sheet. | | |
| Pictures | EPS; Tiff. Do not use pre-separated files (DCS). | | |
| Printed surface | 2% - 98% in case of 60's screen | | |
| Grey balance | Quarter tone | (25%): | C 25%; M 18%; Y 18% |
| Recommendation | Half tone | (50%): | C 50%; M 40%; Y 40% |
| | Three-fourth tone | (75%): | C 75%; M 64%; Y 64% |

: PAPER CLASSES AND ICC-PROFILES

| Paper class | Description | Profile filename | Characterisation details |
|---|-----------------------------|--------------------------|--------------------------|
| Paper class 1+2 glossy or matt coated art print | ISO Coates v2 300% (ECI) | ISOcoated_v2_300_eci.icc | FOGRA39L |
| Paper class 3 gloss coated web offset (LWC) | ISO Web Coated | ISOwebcoated.icc | FOGRA28L |
| Paper class 4 uncoated, white, Offset | SC Paper (ECI) | SC_paper_eci.icc | FOGRA40L |
| Paper class SNP Standard, Newsprint, Heatset, Web offset | PSO SNP Paper (ECI) | PSO_SNP_paper_eci.icc | FOGRA42L |

(THESE AND FURTHER PROFILES PLEASE SEE DOWNLOADS)

: DIGITAL PROOF

Offset-Printing Standard

Basis of communication concerning data exchange in terms of colour and fact accordance between client, supplier and printer is the digital proof. Basis of specification for the colour accordance "Proof to Print" is the process standard offset. For all pages (single or double pages) delivered by you, we need colour consistent proofs incl. Ugra/Fogra media wedge CMYK 2.0. The printouts must match with the data. If not, the deviations (corrections) must be marked in writing in the printout. If you are working with us for the first time we require an older production page with a colour consistent proof incl. media wedge as well as a ECI 2002-testchart proofed by your system as reference concerning colour. The actual offset-profiles are available in the download area (see category "Downloads").

Notice

By using frequency modulated screening in digital proof systems a moiré effect can be hard to discover. Therefore it is advisable to have a closer look at the images of fine structures (hound's-tooth, checked patterns and stripes). In case of resulting moiré effects or patterns you can assume that these effects will also appear in print.

: DOWNLOADS

ICC-profiles and all corresponding characterisation details, the ECI-2002 chart etc. or other information are available in the download area at

<http://www.schlottgruppe.de/en/95.html>

Further information will also be available at: <http://www.eci.org./eci/de>

These technical guidelines for digital data delivery are part of each such order placed with broschek rollenoffset GmbH. Divergences from these guidelines require prior written agreement. Additional costs resulting from such divergences will be invoiced by broschek rollenoffset GmbH.

This is a translation from an original German document. German word description will still be prevail over any translation of this document.