



Information

Munich, Jan. 2007

Ugra/Fogra Digital Print Control Strip [PCS]

Direct-to-film, direct-to-plate and direct-to-press have become a reality. It is now important that well established control routines like those of standardisation according to bvdM/Fogra are continued on a digital basis. The Ugra/Fogra Digital Print Control Strip provides a PostScript tool box which can be used to assemble print control strips to fit any format. The best mix of modules depends on the type of job.

Module 1 serves for the control of solid tone inking and ink trapping. Module 2 is for halftone printing, it offers patches for the control of dot gain, colour balance and doubling/slur. The evaluation of the patches follows the established conventional procedures.

Control patches

There are two horizontally and vertically oriented files supplied.

Stripping

Modules can be repeated as desired and stripped in every program capable of importing and positioning EPS files.

Compatibility

Useful for all PostScript output devices, for example film and plate setters, proofing systems, colour copiers, direct-to-press systems.

Please note

The accurate determination of on-press dot gain as well as doubling/slur requires a prior check of the film or plate values.

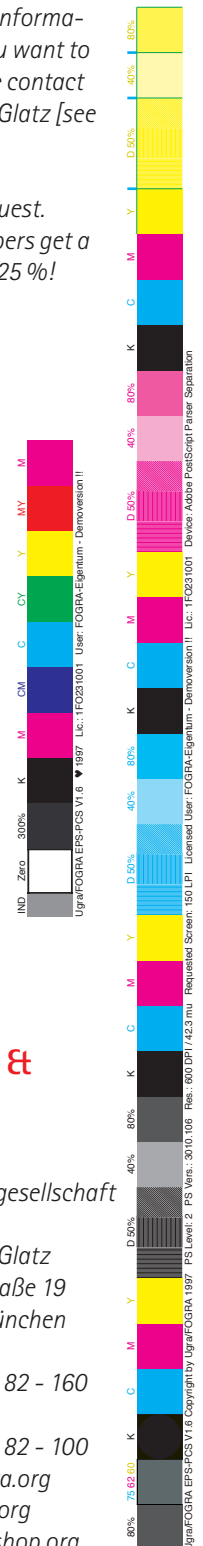
The target values for standardised printing can be taken from the current international printing standard ISO 12647-2 "Graphic technology – Process control for the manufacture of half-tone colour separation, proof and production prints – Part 2: Offset lithographic processes" [www.iso.org]. This standard is also part

of "Media Standard Print – Technical Guidelines for Data, Proofs and Films", published by Bundesverband Druck und Medien, Germany [www.bvdm.org].

Bestellung

For further information or if you want to order please contact Magdalene Glatz [see below].

Price on request.
Fogra members get a discount of 25 %!

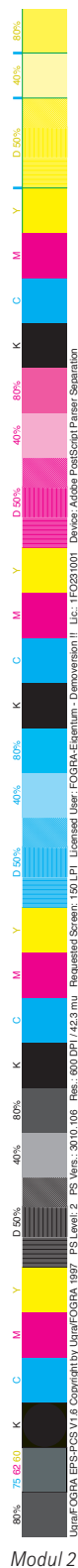


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Ugra/Fogra Digital Print Control Strip

and the ProzessStandard Offsetdruck [bvdM]



Halftone patches
for monitoring tone value increase

Monitoring production run with densitometer.

Solid patches
for monitoring inking

Matching based on colour reference [3], monitoring production run with densitometer.

Slur/doubling patch
for monitoring true rolling conditions and register play

Patches should display the same brightness. NB: check first whether patches on film/plate are indeed identical [densitometer].

Balance patch
[next to 80 % true grey]
for monitoring the colour balance

The colour match between the proof and the ok print or the production run should be as close as possible.

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Primary colour solids

Secondary colour solids

CMY overprint and 100 % black patch
for monitoring ink acceptance

Indicator patch
Line patch indicates whether 60/cm circular dot output is given



Tone value increase

	Mid-tone [40 %]	Shadow [80 %]
Paper type 1+2*	13 % ± 4 %	11 % ± 3 %
Paper type 3*	16 % ± 4 %	11 % ± 3 %
Paper type 4+5*	19 % ± 4 %	12 % ± 3 %

Positive platemaking: 60/cm, circular dots. Tone value increase and tolerance ranges for normal production printing. Target values apply to chromatic colours. Values for black 3 % higher in the mid-tones and 2 % higher in the shadows. The tone value differences between the cyan, magenta and yellow should not exceed 5 % in the mid-tone.

*Paper types

- 1 = 115 g/m² gloss-coated wood-free
- 2 = 115 g/m² matte-coated wood-free
- 3 = 70 g/m² gloss-coated web offset
- 4 = 115 g/m² uncoated white
- 5 = 115 g/m² uncoated slightly yellowish

References

- [1] ProzessStandard Offsetdruck, bvdM, Wiesbaden
- [2] Digital-Druckkontrollstreifen [instructions for use], Fogra, Munich
- [3] Anwendungspaket "Altona Test Suite", bvdM, Wiesbaden