

This letter is writing you:

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Dear Sir or Madam,

there is no other field of the printing branch where there are as many new technologies developed as in the PrePress. We have focussed on using these technologies at Edelmann, as far as they are reasonable, and make a process faster and more secure.

Often an approved proof was not equal to the final printed result. To end these discussions in the future, we have grappled with the topic of color management. Today we can say, that we control this topic technologically. To bring color management more closely to you, we have put some information together on the following pages.

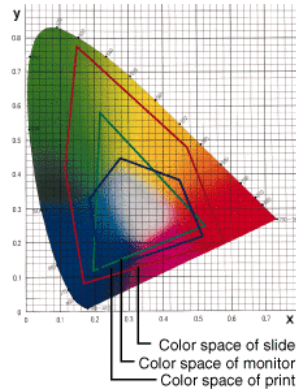
We look forward to your co-operation

Edelmann Graphic Services

Information to color management

Background

Every output machine has a different color space.



What is color management (cm)?

In case of different output machines, such as

- printer
- digital proof
- matchprint
- printing machine, etc.

Color management is an aid to achieve the same color result.



Proof from the customer



printing machine



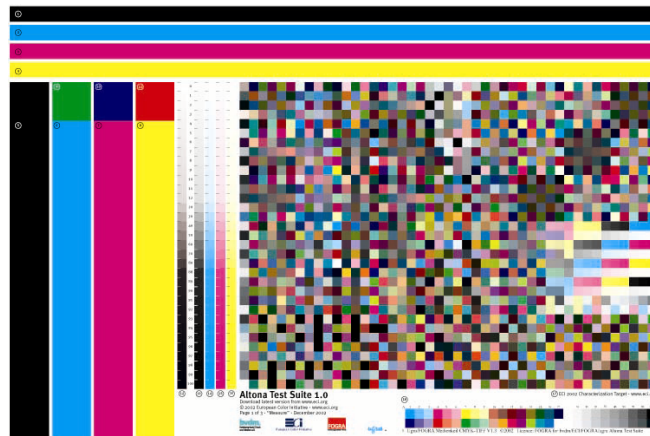
printer



digital proof

Because of the technical condition of the devices this is physically not possible, since foil, toner, printer ink or color pigments are used. The characteristics of the output machines can be measured and can be converted into a different color space.

In order to determine the color space of the respective device, one can use a standardised ECI2002-Chart.



Procedure

In order to create correct digital proofs, analogous proofs and wet proofs (printed sheets) at the customer or his agency, one has to apply the subsequent procedure that follows process standard offset ISO 12647-2.

The digital proof must be created using the process standard offset ICC-profile (isocoated_v2_eci) (ICC=International Color Consortium) or in case of special print products e. g. UV-colour with the Edelmann printing machine profile. In order to evaluate the digital proof metrologically the FOGRA media wedge CMYK that shows the required CIELAB values for the offset print must be included. (www.fogra.org).

An analogous proof or wet proof/printed sheet must also be manufactured in accordance with process standard offset. On the sheet there must be a colour control stripe (CMYK and special colours). The dot gain and the colour density must be in compliance with the corresponding part of the standard series ISO 12647. The source and reference printing profiles that have been used for making the printing form must be indicated.

In case of special materials/carton board finishing we additionally need the ECI2002 chart in order to perform the colour space adaption.

Standard profiles:

In order to safeguard that colour valid proofs from the customer (digital proofs, analogous proofs and wet proofs/printed sheets) correspond to the new defined standard colour space for the process standard offset ISO 12647 the proofs have to be made with the following ICC-profiles:

Process Standard Offset Print of the “German Federal Association of Printing and Media” (Bundesverband Druck und Medien / bvdm, www.bvdm-online.de) for paper class 1/2 following ISO 12647-2:2003 (gloss / matt coated, white).

Download of the ICC-Profiles:

www.eci.org

Profile name: isocoated_v2_eci.icc (175 lpi, 150 lpi)
Characterisation file: FOGRA39L.txt

The ICC-emission profile (reference printing profile) of the printing conditions that has been used for the proof has to be supplied or has to be marked with a link on a generally known profile source.

Edelmann printing machine profile:

ICC-profiles for special printing products (e. g.: UV- or FM-print) can be called-off from Edelmann.

With kindest regards

Edelmann Graphic Services