

PDF Specifications for the Customer – Colour Management

Colour management

For the conversion of images from RGB (or another colour space) to CMYK the corresponding **target** offset profile must be used for print on various types of paper. The profiles can be downloaded from <http://www.eci.org/en/downloads> in the ICC profiles part from ECI/ Downloads/**eci_offset_2009.zip**. Their exact use is defined in the table below:

ICC profile name	Specification of the used paper	Conformity to ISO 12647-2*	Definition of print conditions with an ISO 12647-2 conform process
ISOcoated_v2_eci.icc	Coated glossy paper	YES	OFCOM_PO_P1_F70
ISOcoated_v2_300_eci.icc	Coated matt paper	YES	OFCOM_PO_P2_F70
PSO_LWC_Improved_eci.icc	LWC white	NO**	
PSO_LWC_Standard_eci.icc	LWC yellow	NO**	
PSO_Uncoated_ISO12647_eci.icc	Woodless offset paper	YES	OFCOM_PO_P4_F60
PSO_SNP_Paper_eci.icc	Newsprint paper	NO	
SC_paper_eci.icc	SC paper (super calandered)	NO	

* You will find more explanations of the ISO issues in the related document Declaration of Conformity of the Production Process of Europrint a.s. to ISO 12647-2

** the new PSO_LWC_Improved_eci.icc (white LWC) and PSO_LWC_Standard_eci.icc (yellowish LWC) profiles are not in full conformity to the definition of the printed material in ISO 12647-2; however, they better correspond to the materials used in practice. Nevertheless, within the print preparation and print process we apply standard process checks based on the ISO 12647-2 methodology. Incorporation of these two materials in the ISO 12647-2 standard is planned for the next issue of this standard.

Declaration of Conformity of the Production Process of Europrint a.s. to ISO 12647-2

General definition

The production process of the company Europrint a.s. conforms to the ISO 12647-2 standard in the following cases:

Print in accordance with ISO 12647-2, heatset disk print and commercial sheet print / specialty print, deep-etch print plate, defined paper type 1 (coated glossy paper), screen line density 70l/cm.

Print in accordance with ISO 12647-2, heatset disk print and commercial sheet print / specialty print, deep-etch print plate, defined paper type 2 (coated matt paper), screen line density 70l/cm.

Print in accordance with ISO 12647-2, heatset disk print and commercial sheet print / specialty print, deep-etch print plate, defined paper type 4 (woodless offset paper), screen line density 70l/cm.

Other printed materials either are not defined in the basic text of the standard or are outdated. This concerns e.g. LWC paper where the new profiles recommended by our company - PSO_LWC_Improved_eci.icc (white LWC) and PSO_LWC_Standard_eci.icc (yellowish LWC) are not in full conformity to the definition of the printed material in ISO 12647-2, but they better correspond to materials used in practice. However, within the print preparation and print process we apply standardized process checks in accordance with the methodology of ISO 12647-2 to all types of paper.

Definition of print data that conform to the ISO 12647-2 standard

The print data should comply with the **PDF Specifications for the Customer** document, which can be downloaded from the www.europrint.cz website. If the provided print data do not make it clear, the target profile that was used for the conversion into the CMYK colour space must be specified. This target profile must correspond to the definition presented in the above mentioned document.

Proof print definition

In our company, the proof print execution process is exempted from the ISO 12647-2 process. Thus, the quality parameters of print are only defined by spectrophotometric and process densitometric measurements of the print output and the proof print only provides an informative reference value.

If the customer insists on printing based on proof prints (executed in our company or elsewhere) or other colour patterns (e.g. surface treated mock-up, envelope, etc.) that do not comply with the specifications of ISO 12647-2, this fact must be mentioned. However, in such a case the process will not be in conformity to ISO 12647-2!

If the customer provides a proof print that will conform to the ISO 12647-2 standard (see full wording of the standard) and the print process corresponds to the three above mentioned print processes that are in conformity to ISO 12647-2, the entire production process will be in conformity to the standard as well.