

PSOcoatedv3_GCR_ColorLogic.ICC

An alternative profile to the ECI PSOcoated_v3 ICC profile, based on FOGRA51 characterization data for universal usage and optimized printability for neutral image areas.

Profile Explained

For good printability in offset printing, GCR Setting (Gray Component Replacement), or the balance of K and CMY in separated images, is important. If RGB images are converted with ICC-profiles to CMYK, the GCR settings are fixed in the CMYK printing profile and specified during the ICC profile generation.



Below is a comparison of the GCR setting of the ECI Profile PSOcoated_v3.ICC and the alternative ColorLogic Profile:



The GCR setup of the PSOcoated_v3_GCR_ColorLogic ICC Profile during profile generation differs from the PSOcoated_v3 profile from ECI in two ways:

1) Print Neutral Images More Stably: Maximum GCR in the Neutrals

The original PSOcoated_v3 has a medium GCR, which is similar both in neutrals such as skin tones. The PSOcoated_v3_GCR_ColorLogic profile has maximum GCR in the neutrals which is reduced in tertiary colors like skin tones. This GCR-strategy combines best of both worlds. A maximum GCR for neutral colors, to avoid best possible color casts or an unstable gray balance during printing. A medium GCR for skin tones avoids grayish skin tones, if black is printed too strong.

2) More Stable Printability for Light Image Areas: Black Starts at Zero

For the PSOcoated_v3_GCR_ColorLogic profile, black starts immediately at zero to replace similar CMY values. This stabilizes the area of light neutral colors. RGB images which contain neutral vignettes, or drop shadows from gray to white, will be printed more stably.

Links and Downloads

Download **FOGRA51** characterization data:

<http://www.fogra.org/index.php?menuid=316&reporeid=225&getlang=en>

Download **ECI** PSOcoated_v3 Profile:

<http://www.eci.org/en/downloads> (scroll down to downloads / offset profiles)

The above downloads provide further background information about the areas of use for the FOGRA51 characterization data and the PSOcoated_v3 profile.

Download ColorLogic **CoPrA**:

<http://colorlogic.de/copra.php>

Further information about Roman16 Images for evaluation of color management workflows are available at: <http://www.roman16.com/en/>

