



spectraCARD IRB

IR Blocking Screen Printing Inks
for transparente PVC Cards

KEY CHARACTERISTICS

- › Excellent Absorption Values
- › Eclipse-certified ISO/IEC 7810
- › «Single Print Run»-Formula
- › Exceptional Peel Values
- › 12 Months Shelf Life
- › Extensive Color Range

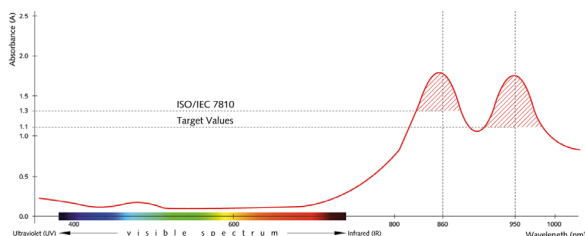
Printcolor's highly infrared absorbing solvent-based screen printing inks *spectraCARD IRB* are ideally suitable for the production of transparent debit and credit cards. The product range includes several colorless and neutral products as well as numerous color shades.

Applications

Typical applications of *spectraCARD IRB*'s are:

- › Debit- und Credit Cards
- › Smart Cards
- › Loyalty Cards

Excellent Transmission Density



Our proven IRB bestsellers **comply with the requirements of ISO/IEC 7810:2019** regarding IR transmission in the range of 860 and 950 nm, as **confirmed by the American testing institute Eclipse**. The norm ensures that ATMs and other IR readers reliably recognize such cards.

Easy Processing and Guaranteed Functionality

spectraCARD IRB can be **processed like a conventional solvent based screen printing ink**. The required IR absorption values are achieved **at a single print** with a mesh 90 (the industry standard requires two printing passes). This

makes our IRB inks **highly attractive both environmentally and economically**.

12 Months Shelf Life—Doubled Durability

We have successfully **extended the shelf life from 6 months to 12 months**. The high stability reduces procurement costs, as «slower» and **more cost-effective shipping methods** can be used. Additionally, **waste is minimized** since less ink needs to be disposed of.

Excellent Peel Values

*spectraCARD IRB*s significantly **exceed the peel values required by ISO/IEC 7810 standards**. When properly laminated, the overlays achieve values between 16 and 18 N for a strip width of 15 mm. This allows for greater tolerances in the lamination process, ensuring increased reliability.

Neutral Gray for Color Matching

The *spectraCARD IRB* Neutral Gray can be used **either as a nearly invisible blocking layer** or as an absorbent base for approximated **adjustment of many colors from the PANTONE® Formula Guide Solid Coated**. If the gray is partially pre-printed as a color-neutral blocking layer by means of screen printing, PMS® simulations—for example, using the mixing system PANTONE Color Bridge®—can be offset printed. This **opens up numerous options in the design** of transparent cards.

ADDITIONAL INFORMATION

Technical Data Sheet
printcolor.ch/tds

Website
spectraCARD

Consulting
sales@printcolor.ch