



spectraCARD IRB

IR Blocking Screen Printing Inks for Transparent PVC Cards

YOUR ADVANTAGES

- › Excellent absorption values
- › Highly transparent
- › Colorless version and wide range of colors
- › Excellent peel values
- › Eclipse certified
- › Meets requirements of ISO/IEC 7810

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

Excellent Absorption Values

The requirements of ISO/IEC 7810:2019 in respect to transmission of IR radiation in the range of 800 to 1000 nm are confirmed by the American test institute *Eclipse Laboratories*. It is thus ensured that the printed cards are properly detected in ATM machines and other IR reading devices.

Neutral Gray for Color Matching

The *spectraCARD IRB Neutral Gray* can be used either as 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 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.

Excellent Peel Values

The typical peel strength value of properly laminated overlays is between 16 and 18 N in a strip width of 15 mm (0.59 in).

Easy Processing and Guaranteed Functionality

spectraCARD IRB can be processed like a conventional solvent based screen printing ink. In addition, the required IR absorption values are achieved at a single print with a mesh 90 threads/cm (230 lines per inch).

Applications

Typical applications of *spectraCARD IRB* are:

- › Debit and credit cards
- › Smart cards
- › Loyalty cards

ADDITIONAL INFORMATION

Technical Data Sheet

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Individual Advice

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