



*Innovative Inks &
Functional Lacquers*

Screen Printing Solutions for ID and Credit Cards



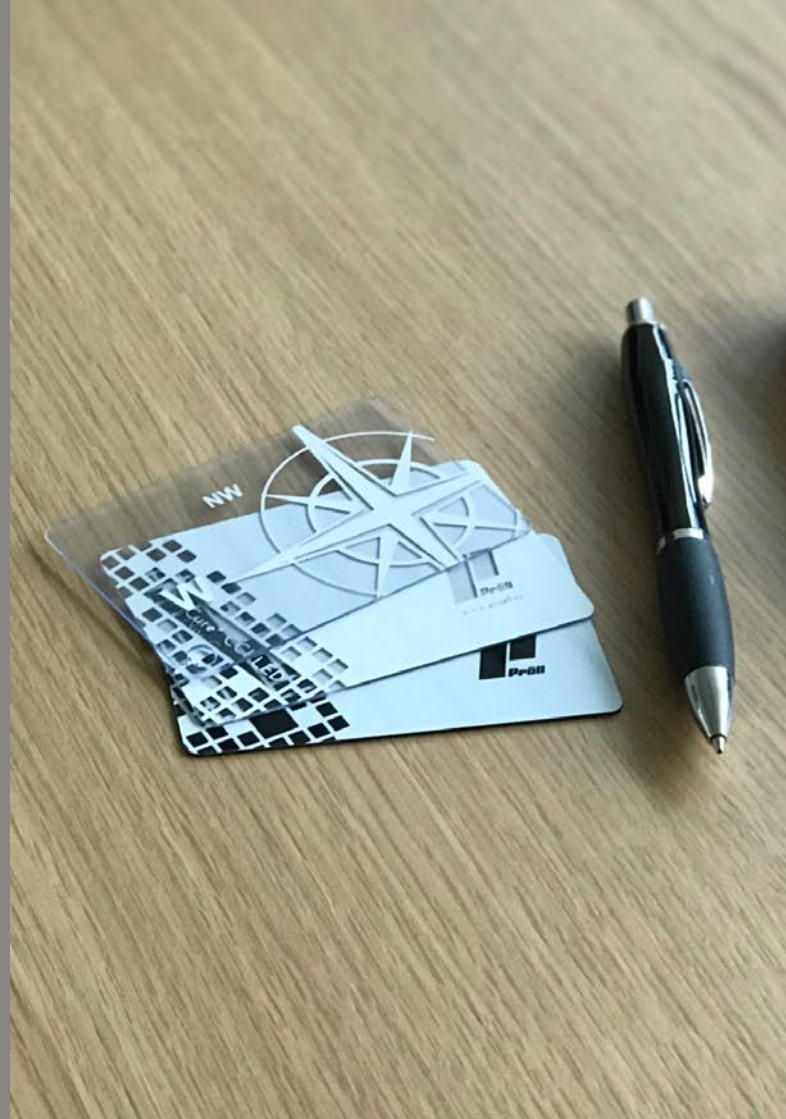
PVC and PETG Materials

The solvent-based ink series **NoriCard** and **NoriCard LSI** are suitable for the decoration and lamination of PVC sheets. If necessary, offset printability can be improved by offset primer **NoriCard 078**. **NoriCard LSI** offers additional benefits regarding occupational health and safety and environmental protection since it is free of aromatic hydrocarbon solvents.

If you are looking for a UV curing solution, you will make the right choice with our ink series **NoriCure® CCI**. For curing with UV-LED technology our ink system **NoriCure® CCI LED** is ideally suited.

Polycarbonate Cards

The new water-based ink system **AquaCard®** offers a complete range of metallic color shades for the lamination of PC and PVC cards. **NORIPHAN® HTR N** is suitable for the production of security documents made of PC films.



Paper Cards

For decoration and surface protection of your environmentally friendly paper cards we can offer water and solvent-based as well as UV curing inks. Personalization by thermal transfer printing is enabled by the application of **NoriCure® TFL**.

Metal Cards

To transform your high-quality metal cards into a beautiful eye-catcher we recommend our solvent-based ink system **NoriScreen® ALU**. Further ink and lacquer systems for the decoration of metal cards are available on request.

Protective Lacquers

Optimal surface protection, both on PVC and PC cards, is achieved by using our high gloss and extremely scratch resistant UV curing lacquer **NoriCure® CSR 03**. With **NoriCure® CSR 02** a protective lacquer with a matt finish is available as well.



Signature Field Inks

All signature field inks which are part of our solvent-based ink series **NoriCard SG** as well as our UV curing ink series **NoriCure® SF** are available in different color shades from colorless to highly opaque white as well as colored.

Bonding Agents

If the peel strength in difficult applications is insufficient, the bonding agents **AquaPress® CA** (water-based) and **NoriPress® SMK** (solvent-based) are available.



Special Effects

Special effects are outstanding eye-catchers, which can often be realized by screen printing only.

Chrome-like effects can be produced by using our solvent-based **Screen Printing Ink L67241**.

Licensed under the designation **NoriCure® X-TRA** special UV curing effect color shades are available, for example chrome-like or rainbow-colored color shades.

To achieve haptic surface effects on PVC and PC cards, the use of our relief lacquer **NoriCure® RSL**, which is available in glossy and matt versions as well as colorless or tinted, is recommended.

Personalization / Individualization

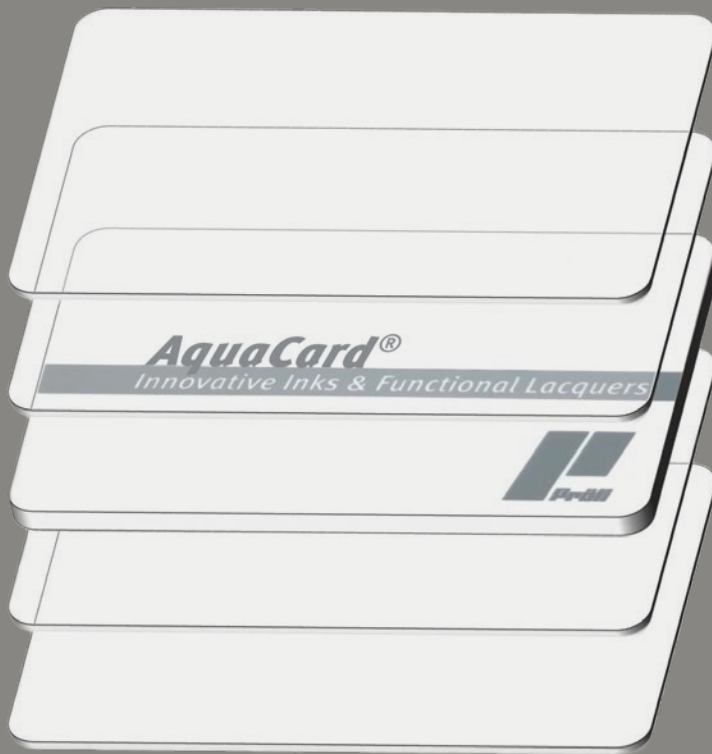
A possibility of personalization is thermal transfer printing. Good ink transfer is not guaranteed necessarily on all materials of card production. Assistance is provided by **NoriCure® TFL**. This coating provides good ink transfer on many substrates using thermal transfer printing.



Screen Printing Solutions for Laminated ID and Credit Cards

The importance of plastic cards is increasing. It is impossible to imagine the world without plastic cards in many areas of daily life – starting with cashless payment systems such as bank and credit cards, vouchers, membership cards up to long-lasting ID documents. Of course, different application areas lay down different requirements on the materials used, which need to be taken by the film on the one hand and the ink on the other hand. As the majority of card products consist of PVC materials, polycarbonate substrates are used especially in the manufacture of high quality and long-lasting ID cards. To achieve your individual technical requirements and design ideas Proell will support you with a comprehensive range of high quality screen printing inks for printing on PVC as well as PETG and PC substrates. We are looking forward to find individual solutions for your specific requirements. High quality plastic cards are usually made up of various ink and film layers, where an overlay film is applied as last layer by means of lamination.





UV Protective Lacquer (optional)

Overlay Film

Core Films, printed with Screen and Offset Inks

Overlay Film

UV Protective Lacquer (optional)

Pröll GmbH

Treuchtlinger Str. 29 · 91781 Weißenburg i. Bay. · Germany

Phone: +49 9141 906-0 · info@proell.de · www.proell.de