

Proell's core business lies in the development of custom-made chemical products for coating/decorating plastics and other materials, as well as innovative ink systems for IMD/FIM technology, and screen and pad printing inks.

Product News**1. NORIPHAN® HTR N 990 NC - non-conductive black for IMD/FIM technology**

NORIPHAN® HTR N is a proven, formable, backmoldable and solvent-based one-component screen printing ink for film insert molding technology.

Due to the development of the new opaque black color shade NORIPHAN® HTR N 990 NC, a carbon-free, non-conductive black is available for printed electronic applications now.

The color shade can be used for decorative prints but is mainly used for plane multi-layer printing or backing of metallic and polymer conductive pastes. Carbon-based pigments, so called carbon blacks, normally used for black color shades, are electrically conductive and can interfere with the functional structures. The NORIPHAN® HTR N 990 NC color shade has been formulated and optimized regarding the interlayer adhesion and shows good adhesion in compound values in the final film/ink/injection material composition.



Pictures 1: Tactotek IMSE-3D demo panels, potential application for non-conductive inks

2. NoriCure® HC-1

NoriCure® HC-1 is a UV-curing screen printing lacquer showing excellent scratch and abrasion resistance. The cured surface of the lacquer resists even strong wipes with steel wool.

The high gloss UV-lacquer is designed for printing on PC films, coated PET films (e.g. Autotype Autoflex EPG 180, Autotex V200), and various rigid PVC films and for overprinting of printed products.

The lacquer is used to overprint and protect displays, lenses and panels. The cured lacquer shows excellent resistances to chemicals and cleaning agents. Besides the high gloss NoriCure® HC-1, matt (NoriCure® HC-1-001) and textured (NoriCure® HC-1-002) as well as UV-stabilized (NoriCure® HC-1-003) versions are available.



Picture 2: Decorated PC film partly protected with NoriCure® HC-1

3. Nori® Protect XCP

Nori® Protect XCP is a glossy, solvent-based and weather resistant two-component screen printing protective lacquer showing good chemical and mechanical resistances.

Nori® Protect XCP is suitable for printing on polycarbonate, rigid PVC, polystyrene, ABS and SAN, pre-treated PET films and corona-treated polyolefins (PE and PP) as well as for metal and aluminum.

Decorated surfaces can be overprinted resp. protected with Nori® Protect XCP. The ink layer is formable on suitable substrates.

The lacquer has been formulated user-friendly in terms of ingredients and is free of aromatic compounds, cyclohexanone and phthalates.

4. NoriCure® EVO

NoriCure® EVO is a new UV curing screen printing ink developed for the manufacture of plastic and ID cards. The ink is suitable for printing on PC and PVC core films and subsequent lamination process.

NoriCure® EVO shows excellent laminating properties and good peel strength with PC and PVC overlay films.



Picture 3: NoriCure® EVO, opaque white, screen printing ink laminated with polycarbonate films

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