IMD Technology / Film Insert Molding



The long established screen printing ink NORIPHAN® HTR N is used worldwide for IMD/FIM as well as speedometer applications. Our state of the art Research and Development Department continues to develop additional inks for the IMD/FIM process including NORIPHAN® XWR and NORIPHAN® XMR. Both inks utilize two-component chemistry and can be used for overprinting conductive pastes in IME (In Mold Electronics) applications due to their high electrical resistance.

We are pleased to introduce our **NEW NORIPHAN® HTR N 990 NC** black ink, which is carbon free, non-conductive and designed for applications where electrical conductivity is critical.



screen printed





ormed illm



TactoTek injection molded structural electronics panel



trimmed film



back molded part

Mercedes-Benz C + E-Class HVAC panel

Ink System:	Adhesion Promoter:	Substrate:	Injection Resin:
NORIPHAN® HTR N		Makrofol®/Bayfol® films	PC/ABS/PMMA
NORIPHAN® PCI N		Makrofol®/Bayfol® films	PC/ABS/PMMA
NORIPHAN® N2K		PC (<125µm) and PET films	PC/ABS
NORIPHAN® XWR	NORIPHAN® HTR N	PC and PET films	PC/ABS
NORIPHAN® XMR	NORIPHAN® HTR N	PC and PET films	PC/ABS
NoriAmid [®]	NoriAmid® APM	PA films	PA/PMMA/PC/ABS
Noricryl [®]		PLEXIGLAS® films	PMMA/ABS
NoriPET®		PET films	ABS
NORIPHAN® XWR	NoriPress® PP	PP films	PP
NoriCure® IMS	AquaPress® or	PC films	PC ••• www.proell.us

NoriPress® SMK (solvent-based) and AquaPress® (water-based) are adhesion promoters / bonding agents for IMD/FIM technology. These products can be used as an overprinting adhesion primer to enhance the bonding of IMD/FIM inks to various low melting point resins as well as for laminating different film types. AquaPress® can be back molded with PC, ABS, and PMMA resins. NoriPress® SMK can be back molded with PA additionally. NoriAmid® APM is an adhesion promoter especially developed for PA materials. NoriPress® PP is suitable for back molding with PP resin. NoriCure® IMS is a formable UV screen printing ink for film insert molding applications. Overprinting with suitable IMD/FIM adhesion promoters is compulsory! Process inks for printing high resolution 4C pictures are available.