

SPECIAL PC FILMS

BREAKTHROUGH MATERIALS for
SECURITY & ID CARD
manufacturing

INPLASTEC.CH/SABIC.COM



PC

NEW TECHNOLOGIES FOR CARD SECURITY

SABIC - Snij Unie in collaboration with INPLASTEC Technology offers high-performance polycarbonate films specially designed for easy manufacturing of complex secure ID cards with thin layers.

SPECIAL PC FILMS were developed in accordance with modern safety requirements for ID cards and security documents.

WIDE APPLICABILITY

SPECIAL PC FILMS can be widely applied in ID cards and documents manufacturing.

APPLICATION FIELD:

- Driver's licenses
- E-passport data pages
- Border crossing cards
- Residence permits
- Military and police IDs
- Smart cards inlays
- Tachometer cards
- Healthcare cards
- Government employees ID
- Vehicle registration tags

QUALITY ASSURANCE

Due to low and controlled shrinkage of SPECIAL PC FILMS card manufacturers can use heat and pressure to produce a card without risk of its further delaminating which helps not only to extend the card's service life but also to increase its security and barrier features.

BENEFITS OF USING

- High temperature resistance
- Low shrinkage for improved flatness
- Optimized textures for printing, hot stamping and lamination
- High optical quality
- Maximum opacity
- Excellent laser markability

BREAKTHROUGH MATERIALS FOR SECURITY & ID CARD MANUFACTURING

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MATERIALS FOR
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**SPECIAL
INPLAFILM®
PC FILMS**

PRODUCT RANGE

PRODUCT NAME	DESCRIPTION	SURFACE FRONT / BACK	GAUGES	VICAT	FUNCTIONALITY	KEY BENEFITS
INPLAFILM PC S 200	PC laser-markable core film, White, High-opaque	FM/FV	100 µm	147°C	Core film for image printing with offset and screen inks for lamination, laser and ink-jet personalization	• Specially designed for ink-jet printing
INPLAFILM PC S 10 SG	PC overlay film with superglossy reverse side	FM/P	50-100 µm	146°C	Is used for front and back sides of the protective layer are designed for security hologram applying	• Does not deteriorate the hologram quality after high-temperature laminating
INPLAFILM PC S 10 HS	Transparent PC overlay film with high gloss antiscratch coating	P/FM	75/105 µm	146°C	Is used for front and back sides of the protective layer have extra glossy antiscratch coating	• Long-life and scratch-resistance • Aqua-neutral and chemical-resistant
INPLAFILM PC S 100	PC overlay laser-markable film	FM/FV	30-150 µm	147°C	Is used for front and back sides of the protective layer are designed for laser personalization	• Provides high quality in process of multilayer plastic cards manufacturing • Provides high quality of laser personalisation
INPLAFILM PC S 100 SG	PC laser-markable overlay film with superglossy reverse side	FM/P	50-100 µm	147°C	Is used for front and back sides of the protective layer are designed for laser personalization and security hologram applying	• Does not deteriorate the hologram quality after high-temperature laminating • Provides high quality of laser personalisation
INPLAFILM PC S 100 HS	PC laser-markable overlay film with high-gloss antiscratch coating	P/FM	75/105 µm	147°C	Is used for front and back sides of the protective layer are designed for laser personalization and extra glossy antiscratch coating	• Long-life and scratch-resistance • Aqua-neutral and chemical-resistant • Provides high quality of laser personalisation
INPLAFILM PC S 110	PC overlay film with high intensive laserability	FM/FV	100 µm	146°C	Is used for front and back sides of the protective layer are designed for high-contrast laser personalisation	• Prevents different type of defects while manufacturing process • Provides high-contrast laser personalization
INPLAFILM PC S 110 HS	PC overlay film with high intensive laserability and high-gloss antiscratch coating	P/FV	105 µm	146°C	Is used for front and back sides of the protective layer are designed for high-contrast laser personalization and extra glossy antiscratch coating	• Prevents different type of defects while manufacturing process • Provides high-contrast laser personalization • Long-life and scratch-resistance



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