

SECURITY + DURABILITY

THE NEW POLYCARBONATE LEXAN™ SD FILM WITH UV-LASERMARKING CAPABILITY HELPS SMART CARD MANUFACTURERS INCREASE SECURITY FEATURES AND COMBAT COUNTERFEITING

Identity theft, counterfeiting and other serious threats call for constant vigilance and innovation in ID card design. As more security features are incorporated into the latest ID cards and governmental documents, the individual card layers and the manufacturing process become more complex and challenging.

Smart card, passport and e-ID manufacturers will be able to integrate next level security features using a patented UV laser-technology thanks to a new polycarbonate (PC) based LEXAN™ SD film overlay from SABIC. The demand for more sophisticated solutions to protect government ID cards and other related documents has led SABIC to pioneer the development of a PC material technology that enables customers to apply a ghost image into the card or document and create a tactile white marking which will fluoresce under UV light, all during the personalization phase, giving manufacturers greater flexibility in design.

This new material from SABIC not only introduces a higher level of security, it also allows for easy manufacturing at a low cost and greater flexibility by allowing advanced security features to be applied during the personalization phase. This latest solution builds upon SABIC's legacy and commitment towards helping card manufacturers deliver more secure products that are harder to copy yet easy to detect by government officers.

This highly transparent PC based film from SABIC, which will become available in gauges of 50 and 100 microns, is able to make the manufacturing process easier through a simplified integration of additional security features. Additionally, the product can be laminated using the standard lamination parameters that are used to produce polycarbonate cards.

POTENTIAL APPLICATIONS

- > Electronic ID cards
- > Government and police ID cards
- > Passport data pages
- > Green cards
- > Driver licenses
- > Border crossing cards
- > Healthcare ID cards



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