

CHEMISTRY THAT MATTERS™



SECURITY+ PERFORMANCE

LEXAN™ SD POLYCARBONATE FILM MATERIALS
FOR SECURITY DOCUMENTS



ABOUT SABIC

SABIC is the third largest global diversified chemical company and market leader in the production of polyethylene, polypropylene and other advanced thermoplastics, glycols, methanol and fertilizers. Fostering innovation and a spirit of ingenuity, we have 21 dedicated Technology & Innovation facilities in Saudi Arabia, the USA, the Netherlands, Spain, Japan, India, China and South Korea.

With over 70 years of legacy of pioneering solutions in advanced engineering thermoplastics, and over three decades of experience in polypropylene and compounds, SABIC's Petrochemicals business is positioned to help create new opportunities for our customer's growth and breakthrough applications around the world. We offer our customers our expertise in a variety of ways:

- Material solutions generated from our legacy of creating solutions for your needs
- Application development and design support, logistics and processing expertise to spark new ideas and improved efficiencies, supported by global sales and supply
- Unwavering commitment to drive performance for our customers, ensuring long-term reliability and building valuable relationships





LEADING-EDGE MATERIALS FOR IDENTIFICATION CARDS

With over a decade of proven experience, SABIC offers a full portfolio of high-performance polycarbonate (PC) LEXAN™ SD Films specially developed for easy manufacturing of complex secure ID cards.

LEXAN Secure ID film portfolio include a lasermarkable grade, a bright white, opaque grade and a clear grade. These films offer tight gauge tolerances to simplify manufacture of cards within mandated thickness parameters. They also provide high performance and exceptional durability.

Additional to the standard layers, SABIC also offers LEXAN™ SDCX co-extruded films and LEXAN™ SC8A12E/SC8A92E flexible hard-coated films. These products directly address accelerating industry trends calling for more and thinner card layers to accommodate additional, enhanced safety features and provide easy processing and enhanced durability for ID cards and other security documents.



POTENTIAL APPLICATIONS

- ID cards
- Drivers licenses
- (E-)passport data pages
- Border crossing cards
- Residency permits
- Green cards
- Military and police ID
- Smart cards inlays
- Tachometer cards
- Healthcare cards
- Government employees ID

FEATURES AND POTENTIAL BENEFITS

- High temperature resistance
- Low and controlled shrinkage for improved flatness before and after printing and lamination
- Surface textures optimized for printing, hot stamping and lamination
- Tight gauge tolerance for controlled stack tolerance after lamination
- High optical quality films, manufactured in a clean room environment
- Maximized opacity in white layer to enhanced ability to hide embedded security devices at thin gauges
- High contrast laser markability of the clear laser markable film



LASER MARKING





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 lasertechnology thanks to a new polycarbonate (PC) based LEXAN™ SD14UV 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 onto the card or document and create a tactile white marking which will fluoresce under UV light, all during the personalization phase.

MATERIALS SPECIALLY DESIGNED FOR CONSISTENT HIGH QUALITY



LEXAN SD8B14 FILM

Clear polycarbonate film that delivers improved durability and temperature resistance over other materials.

LEXAN™ SD8B14 Films

	Gauge	Length	Weight
2 sides textured	µm	m	kg
Texture: fine velvet / fine matte	30	1940	85
Width: 1220 / 1270 mm	50	1940	142
Color: 112 (transparent)	75	1290	142
Gauge Range: 30 - 600 µm	100	970	142
MOQ: 1 pallet	125	640	117
	150	640	140
	175	457	117
	200	400	117
	250	327	120
	300	320	140
	375	228	125
	400	228	133

LEXAN SD8B24 FILM

Opaque white polycarbonate film with excellent opacity designed to hide embedded security devices at thin gauge.

LEXAN™ SD8B24 Films

	Gauge	Length	Weight
2 sides textured	µm	m	kg
Texture: fine velvet / fine matte	50	1940	158
Width: 1220 / 1270 mm	75	1290	158
Color: WH9B246 (opaque white)	100	970	158
Gauge Range: 30 - 400 µm	105	900	154
MOQ: 1 pallet	110	875	157
	125	640	131
	150	640	156
	175	457	131
	200	400	131
	220	400	144
	240	327	128
	250	327	133
	280	305	140
	300	320	157
	340	270	150
	385	228	144
	400	228	149

LEXAN SD8B94 FILM

Clear lasermarkable polycarbonate film that can be used as the top or intermediate layer to provide grayscale graphics and precise images for high security personalization.

LEXAN™ SD8B94 Films			
	Gauge	Length	Weight
2 sides textured	µm	m	kg
Texture: fine velvet / fine matte	30	1940	85
Width: 1220 / 1270 mm	50	1940	142
Color: NA9D070T (clear lasermarkable)	75	1290	142
Gauge Range: 30 - 620 µm	100	970	142
MOQ: 1 pallet	125	640	117
	150	640	140

LEXAN SD8A12 FILM

Clear polycarbonate films with high polished surface

LEXAN™ SD8A12 Films			
	Gauge	Length	Weight
1 side textured	µm	m	kg
Texture: polish/fine matte	50	1940	142
Width: 1220 / 1270 mm	100	970	142
Color: 112			
MOQ: 1 pallet			

LEXAN SD8A92 FILM

Clear lasermarkable film with high polished surface.

LEXAN™ SD8A92 Films			
	Gauge	Length	Weight
1 side textured	µm	m	kg
Texture: polish / fine matte	50	1940	142
Width: 1220 / 1270 mm	100	970	142
Color: 112			
MOQ: 1 pallet			

LEXAN SDCX CO-EXTRUDED FILM

Combines a core layer of white opaque or transparent LEXAN film with a clear, lasermarkable cap layer to avoid the challenges of handling separate thin film layers, offering easy processing.

LEXAN™ SDCX Films			
	Gauge	Length	Weight
2 sides textured	µm	m	kg
Texture: fine matte / fine matte	150	640	149
Width: 1220 / 1270 mm			
Color: WH9B246			
MOQ: 1 pallet			

LEXAN SC8A12E FILM

Clear anti-scratch coated film that surpasses standard PC film in durability, including scratch and chemical resistance, helping to extend useful life of the card.

LEXAN™ SC8A12E Films			
	Gauge	Length	Weight
hard-coated clear	µm	m	kg
Texture: polished / fine matte	75	838	92
Width: 1220 mm	105	838	129
Color: 112			
MOQ: 1 pallet			

LEXAN SC8A92E FILM

Clear lasermarkable anti-scratch coated film that surpasses standard PC film in durability, including scratch and chemical resistance, helping to extend useful life of the card.

LEXAN™ SC8A92E Films			
	Gauge	Length	Weight
hard coated clear lasermarkable	µm	m	kg
Texture: polished / fine matte	75	838	92
Width: 1220 mm	105	838	129
Color: NA9D070T			
MOQ: 1 pallet			

LEXAN SD14UV FILM

Clear UV-lasermarkable polycarbonate film that allows card manufacturers to introduce new security elements into the card during personalization.

LEXAN™ SD14UV Films			
	Gauge	Length	Weight
hard coated clear lasermarkable	µm	m	kg
Texture: fine velvet / matte	50	1940	142
Width: 1220 / 1270 m	100	970	142
Color: 112			
MOQ: 1 pallet			







GLOBAL COMPANY WITH LOCAL SERVICES & SUPPLY

PRODUCTION

- Global footprint with state of the art extrusion
- Multi layer extrusion & coating capability

PRODUCT DEVELOPMENT

- New product launches co-ex, UV lasermarkable films
- Extensive capability for characterization & prototyping

SERVICE

- Fully integrated SABIC supply chain
- resin production, extrusion, conversion & distribution
- Material stocked and converted local to customer's location to ensure short lead time
- Flexible supply with low minimum order quantities

CONTACT US

Middle East and Africa

SABIC Global Headquarters
PO Box 5101
Riyadh 11422
Saudi Arabia
T +966 (0) 1 225 8000
F +966 (0) 1 225 9000
E info@sabic.com

Americas

SABIC
1 Plastics Avenue
Pittsfield, MA 01201
USA
T 800 323 3783 (toll free)
T +1 413 448-6655
F (888) 443 2033
E sales.spinside@sabic.com

Europe

SABIC
Plasticslaan 1
4612 PX
Bergen op Zoom
The Netherlands
T +31 (0)164 293678
F +31 (0)164 293272
E ff.info@sabic.com

Asia Pacific

SABIC
2550 Xiupu Road
Pudong
201319 Shanghai
China
T +86 21 3222 4500
F +86 21 6289 8998
E ff.info@sabic.com



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