

CHEMISTRY THAT MATTERS™



SECURITY+ PERFORMANCE

LEXAN™ SD POLYCARBONATE FILM MATERIALS
FOR SECURITY DOCUMENTS



ABOUT SABIC

SABIC operates a worldwide network of sales, distribution, research, manufacturing and technical service facilities. With all twelve ISO certified manufacturing sites for thermoplastics films and sheets across the USA, Canada, the Netherlands, Italy, Austria, China, Malaysia, India and Brazil, the company serves customers around the world in a broad spectrum of industries and applications. The company also offers a local team, complete supply chain and distribution organization to ensure a reliable source of materials to its customers wherever their manufacturing site is located.

LEADING-EDGE MATERIALS FOR IDENTIFICATION (ID) CARDS

IDENTITY THEFT, COUNTERFEITING AND OTHER SERIOUS THREATS CALL FOR CONSTANT VIGILANCE AND INNOVATION IN ELECTRONIC ID CARD DESIGN

With a decade of proven experience, SABIC offers a high-performance polycarbonate (PC) LEXAN™ SD Film portfolio specially designed for easy manufacturing and lamination of complex secure ID cards with thin layers.

LEXAN Secure ID film portfolio include a lasermarkable grade, a bright white, opaque grade and a clear grade for the overlay or intermediate layers. 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 film 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.



SECURITY CHECK



FEATURES AND POTENTIAL BENEFITS

- High temperature resistance
- Low and controlled shrinkage for improved flatness before and after 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

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

MATERIALS SPECIFICALLY DESIGNED FOR CONSISTENT HIGH QUALITY

LEXAN SD8B14 FILM

Clear polycarbonate film for overlay or intermediate layers that delivers improved durability and temperature resistance over other materials. This one side fine velvet/ one side fine matte film is available in gauges ranging from 30 – 400 μ m with tight gauge tolerance of +/- 10% on 30 μ m, +/- 5% from 50 μ m - 249 μ m, +/- 2.5% from 250 μ m - 400 μ m.

LEXAN SDCX CO-EXTRUDED FILM

Combines a core layer of white opaque or transparent LEXAN film with a clear, laser-engravable cap layer to avoid the challenges of handling separate thin film layers, offering easy processing. Standard available in 150 μ m total thickness (including 50 μ m cap-layer). Customer gauges upon request.

LEXAN SD8B24 FILM

Opaque white polycarbonate film with excellent opacity designed to hide embedded security devices at very thin gauge. This one side fine velvet/ one side fine matte film is available in gauges from 50 μ m – 440 μ m with tight gauge tolerance of +/-5% <249 μ m, and +/- 2.5% from 250 μ m - 620 μ m.

LEXAN SD8A12 FILM

Clear polycarbonate film for overlay or intermediate layers. This one side high gloss polished / one side fine matte film is available in gauges of 50 and 100 μ m with tight gauge tolerance of +/- 5%.

LEXAN SD8B94 FILM

Transparent laser markable polycarbonate film that can be used as the top or intermediate layer to provide grayscale graphics and precise images for high security personalization. This one side fine velvet/ one side fine matte film is available in gauges from 30 μ m – 150 μ m with maximum gauge tolerance of +/- 10% on 30 μ m, +/- 5% from 50 μ m - 150 μ m

LEXAN SC HARD-COATED OVERLAY FILMS

Surpasses standard PC film in durability, including scratch and chemical resistance, helping to extend useful life of the card. Available in thicknesses of 75 and 105 μ m. LEXAN SC8A12E film is a clear hard coated and LEXAN SC8A92E film is a clear laserable hard coated overlay film.

LEXAN SD14UV FILM

Transparent UV-lasermarkable polycarbonate overlay film that allows card manufacturers to introduce new security elements into the card during personalization. This one side fine velvet/one side fine matte film is available in gauges of 50 μ m and 100 μ m with tight gauge tolerance of \pm 5%.



AVAILABILITY

Clear Overlays

LEXAN™ SD8B14 Film	Gauge	Length	Weight
2 sides textured	µm	m	kg
Texture:	30	1940	85
fine velvet / fine matte	50	1940	142
Width :1220 mm	75	1290	142
Color: 112 (transparent)	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

White Core Layer LEXAN SD8B24 Film

LEXAN SD8B24 Film	Gauge	Length	Weight
2 sides textured	µm	m	kg
Texture:	50	1940	158
fine velvet / fine matte	75	1290	158
Width :1220 mm	100	970	158
Color: WH9B246 (opaque white)	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
	440	210	135
	620	140	142

Clear, laser-markable layer

LEXAN SD8B94 Film	Gauge	Length	Weight
2 sides textured	µm	m	kg
Texture:	30	1940	85
fine velvet / fine matte	50	1940	142
Width: 1220 mm	75	1290	142
Color: NA9D070T (clear laser mark able)	100	970	142
MOQ: 1 pallet	125	640	117
	150	640	140

Clear overlays

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

Co-extruded Layers

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

Flexible Coated Overlays

LEXAN SC8A12E Film	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			

Flexible Coated Overlays

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

Flexible Coated Overlays

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

Distributed by



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