

LEXAN™ SC8A92E FILM

PRODUCT DATASHEET

DESCRIPTION

LEXAN™ SC8A92E film is a high-performance one side coated clear transparent laser markable overlay film that is typically used in governmental documents, such as passport data pages, ID cards, driving licenses etc. To that extent, features include extreme durability of coating, 1/8" mandrel bend flexibility, anti-blocking, excellent abrasion resistance, excellent clarity and consistency of gloss level. The uncoated side has a fine matte textured surface.

TYPICAL PROPERTY VALUES

PROPERTY	ASTM TEST METHOD	UNITS (USCS)	VALUE	ISO TEST METHOD	UNITS (SI)	VALUE
MECHANICAL						
Tensile Strength @ Yield	ASTM D882	psi	8122	ISO 527	MPa	56
Ultimate	ASTM D882	psi	8122	ISO 527	MPa	56
Tear Strength						
Initiation	ASTM D1004	lbf	12	ASTM D1004	N	52
Propagation	ASTM D1938	lbf	0.6	ASTM D1938	N	2.8
THERMAL						
Vicat Softening Temperature, B50	ASTM 1525	°F	295	ISO 306	°C	146
Heat Deflection Temp. Af 120°C/h	ASTM D648	°F	262	ISO 75 Modified	°C	128
Shrinkage at 266°F (130°C), 30min	Internal method	%	0.19%	Internal method	%	0.19%
PHYSICAL						
Density	ASTM D792	slug/ft ³	2.33	ISO 1183	g/cm ³	1.2
Surface Roughness Ra uncoated side		µin	35 [FM]	ISO 4288	µm	0.9 (FM)
Pencil Hardness	ASTM D3363	-	HB	ASTM D3363	-	HB
Taber Abrasion	ASTM D1044	delta Haze	3-4	ASTM D1044	delta Haze	3-4
OPTICAL						
Light Transmission	ASTM D1003	%	86	ASTM D1003	%	86
Color: b-value	CIE Lab, Reflection, D65, 10°		3.29	CIE Lab, Reflection, D65, 10°		3.29

◆ These are typical properties and are not intended for specification purposes. If minimum certifiable properties are required, please contact your local SABIC representative or the SABIC Quality Services Department. Reported Values are based on 0.0042" (0.105 mm) gauge thickness unless otherwise noted.

™ Trademark of SABIC.

MANUFACTURING SPECIFICATIONS

NOMINAL GAUGE RANGES	MIN./MAX LIMIT OF NOMINAL
0.075 and 0.105mm	± 5%

CHEMICAL RESISTANCE

CHEMICAL	RESULTS
One Hour Continuous Surface Contact at 73° F	
Acetone	Passed
MEK	Passed
Toluene	Passed
Methylene Chloride	Passed
Isopropyl Alcohol	Passed
Cyclohexane	Passed
Ethyl Acetate	Passed
40% NaOH	Passed
Conc.HCL	Passed
Gasoline (Unleaded)	Passed
Butyl Cellosolve	Passed

Failure constitutes any of the following: non-removable stain or cloudiness, blistering, de-lamination, or cracking of the coating or failure to pass crosshatch tape adhesion.

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

Functional Forms
2500 City West Boulevard
Suite 100
Houston, TX 77042
USA
Toll-free (800) 323 3783
F (888) 443 2033
E spinside.sales@sabic.com

Europe

Functional Forms
Plasticslaan 1
4612 PX Bergen op Zoom
The Netherlands
T +31 164 293678
F +31 164 293272
E ff.info@sabic.com

Asia Pacific

Functional Forms
2550 Xiupu Road
Pudong
201319 Shanghai
China
T +86 21 2037 8188
F +86 21 2037 8288
E ff.info@sabic.com

DISCLAIMER: THE MATERIALS, PRODUCTS AND SERVICES OF SAUDI BASIC INDUSTRIES CORPORATION (SABIC) OR ITS SUBSIDIARIES OR AFFILIATES ("SELLER") ARE SOLD SUBJECT TO SELLER'S STANDARD CONDITIONS OF SALE, WHICH ARE AVAILABLE UPON REQUEST. INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS DOCUMENT ARE GIVEN IN GOOD FAITH. HOWEVER, SELLER MAKES NO EXPRESS OR IMPLIED REPRESENTATION, WARRANTY OR GUARANTEE (i) THAT ANY RESULTS DESCRIBED IN THIS DOCUMENT WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN OR APPLICATION INCORPORATING SELLER'S MATERIALS, PRODUCTS, SERVICES OR RECOMMENDATIONS. UNLESS OTHERWISE PROVIDED IN SELLER'S STANDARD CONDITIONS OF SALE, SELLER SHALL NOT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS, SERVICES OR RECOMMENDATIONS DESCRIBED IN THIS DOCUMENT. Each user is responsible for making its own determination as to the suitability of Seller's materials, products, services or recommendations for the user's particular use through appropriate end-use and other testing and analysis. Nothing in any document or oral statement shall be deemed to alter or waive any provision of Seller's Standard Conditions of Sale or this Disclaimer, unless it is specifically agreed to in a writing signed by Seller. Statements by Seller concerning a possible use of any material, product, service or design do not, are not intended to, and should not be construed to grant any license under any patent or other intellectual property right of Seller or as a recommendation for the use of any material, product, service or design in a manner that infringes any patent or other intellectual property right.

SABIC and brands marked with ™ are trademarks of SABIC or its subsidiaries or affiliates.
© 2019 Saudi Basic Industries Corporation (SABIC). All Rights Reserved.

† Any brands, products or services of other companies referenced in this document are the trademarks, service marks and/or trade names of their respective holders.

www.sabic.com/sfs