

LEXAN™ SDCX50 – WH9B246 FILM

PRODUCT DATASHEET

DESCRIPTION

LEXAN™ SDCX50 – WH9B246 Film is a co-extruded polycarbonate film with a core LEXAN SD8B24 layer and a 50µm LEXAN SD8B94 cap-layer with a fine matte (FM) texture on both sides. This polycarbonate film is typically used in government security documents, such as passport data pages, ID cards, driving licenses and many more. It offers great printability and ease of processing (laminating, die-cutting, hot stamping). LEXAN SDCX50 Film is available in 150µm.

TYPICAL PROPERTY VALUES

PROPERTY	ASTM TEST METHOD	UNITS (USCS)	VALUE	ISO TEST METHOD	UNITS (SI)	VALUE
MECHANICAL						
Tensile Strength @Yield	ASTM D882	psi	8265	ISO 527	MPa	57
Ultimate	ASTM D882	psi	8265	ISO 527	MPa	57
Tensile Modulus	ASTM D882	psi	348 x10 ³	ISO 527	MPa	2400
Tensile Elongation at Break	ASTM D882	%	130	ISO 527	%	130
THERMAL						
Vicat Softening Temperature, B50	ASTM 1525	°F	297	ISO 306	°C	147
Shrinkage at 130°C, 30min	Internal method	%	0.17	Internal method	%	0.17
PHYSICAL						
Density	ASTM D792	slug/ft ³	2.51	ISO 1183	g/cm ³	1.29
Surface Roughness Ra (core side)		µin	16.5	ISO4288	µm	0.42
Surface Roughness Ra (cap-layer side)		µin	46.5	ISO4288	µm	1.18
OPTICAL						
Light Transmission	ASTM D1003	%	9.40	ASTM D1003	%	9.40
Color: b-value (cap-layer side)	CIELab, Reflection, D65, 10°		-1.44	CIELab, Reflection, D65, 10°		-1.44

◆ These are typical properties and are not intended for specification purposes. If minimum certifiable properties are required, please contact your local SABIC, Specialty Film & Sheet representative or the Quality Services Department. Reported Values are based on 0.150 mm (0.005") thickness film, except for the Coefficient of thermal expansion, Vicat softening temperature, Heat deflection temperature and water absorption, which are based on molded parts.

™ Trademark of SABIC.

MANUFACTURING SPECIFICATIONS

NOMINAL GAUGE RANGES	MIN./MAX LIMIT OF NOMINAL
0.150 mm	± 5%

CONTACT US:

SABIC CORPORATE HQ

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

EUROPE

SABIC
Functional Forms
Plasticslaan 1
4612 PX
Bergen op Zoom
The Netherlands
T +31 (0)164 293684
F +31 (0)164 292272
E ff.info@sabic.com

PACIFIC

SABIC
Functional Forms
2550 Xiupu Road
Pudong
201319 Shanghai
China
T +86 21 3222 4500
F +86 21 6289 8998
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 TM are trademarks of SABIC or affiliates.
© Copyright 2021 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.

