

LEXAN™ SD8B24H FILM

PRELIMINARY PRODUCT DATASHEET

DESCRIPTION

LEXAN™ SD8B24H film is a one side fine velvet (FV), one side fine matte (FM) white opaque polycarbonate film that is typically used in governmental documents, such as passport data pages, ID cards, driving licenses, etc. It offers great printability, ease of processing (laminating, die-cutting, embossing) and increased opacity versus the standard LEXAN SD8B24. LEXAN SD8B24H film is available in gauges ranging from 30 – 200 µm and in color 8G9A4499.

TYPICAL PROPERTY VALUES

PROPERTY	ISO TEST METHOD	UNITS (SI)	VALUE
MECHANICAL			
Tensile Strength @ Yield	ISO 527	MPa	49.7
Ultimate	ISO 527	MPa	54.7
Tensile Modulus	ISO 527	MPa	2550
Tensile Elongation at Break	ISO 527	%	111
THERMAL			
Glass Transition Temperature	ISO 11357	°C	149
Vicat Softening Temperature, B50	ISO 306	°C	147
Heat Deflection Temp. Af 120°C/h	ISO 75 Modified	°C	132
Shrinkage MD at 130°C, 30min	Internal method	%	0.21
PHYSICAL			
Density	ISO 1183	g/cm ³	1.45
Surface Roughness Ra	ISO4288	µm	1.11 [FM] 2.34 [FV]
Surface Roughness R3z	ISO4288	µm	5.21 [FM] 11.48 [FV]

PROPERTY	ASTM TEST METHOD	UNITS (USCS)	VALUE
OPTICAL			
Light Transmission	ASTM D1003	%	5.03
Optical density			1.26
Color:	CIELab, Reflection,		
L-value	D65, 10°		94.80
a-value			-0.44
b-value			-2.38

- ◆ 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 0.250 mm (0.010") thickness film, except for the Coefficient of thermal expansion, Vicat softening temperature, Heat deflection temperature and water absorption, which are based on molded parts.

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MANUFACTURING SPECIFICATIONS

NOMINAL GAUGE RANGES	MIN./MAX LIMIT OF NOMINAL
0.030 mm	± 10%
0.050 – 0.200 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

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