

# 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 50 – 200 µm and in color 8G9A4499.

### TYPICAL PROPERTY VALUES

PROPERTY	ISO TEST METHOD	UNITS (SI)	VALUE
<b>MECHANICAL</b>			
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
<b>THERMAL</b>			
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
<b>PHYSICAL</b>			
Density	ISO 1183	g/cm <sup>3</sup>	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
<b>OPTICAL</b>			
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
0.050 – 0.200 mm	± 5%

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