

## PRODUCT DATASHEET

# LEXAN™ SDCX50 FILM

### DESCRIPTION

LEXAN™ SDCX50 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 and in the color WH9B246.

### TYPICAL PROPERTY VALUES\*

PROPERTY	ASTM TEST METHOD	UNITS (USCS)	VALUE	ISO TEST METHOD	UNITS (SI)	VALUE
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#### MECHANICAL

Tensile Strength @Yield	ASTM D882	psi	8265	ISO 527	MPa	57
@Break	ASTM D882	psi	8265	ISO 527	MPa	57
Tensile Modulus	ASTM D882	psi	348 x10 <sup>3</sup>	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 <sup>3</sup>	2.51	ISO 1183	g/cm <sup>3</sup>	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	%	84	ASTM D1003	%	84
Color: b-value	CIELab, Reflection,		3.26	CIELab, Reflection,		3.26
	D65, 10°			D65, 10°		

◆ These are typical properties and are not intended for specification purposes. If minimum certifiable properties are required, please contact your local POLYVANTIS, 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.

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

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**LEXAN™** Tough, Virtually Unbreakable  
POLYCARBONATE FILM & SHEET