POLYVANTIS

PRODUCT DATASHEET

LEXAN™ SDCX50L–112 FILM

DESCRIPTION

LEXAN™ SDCX50L - 112 Film is a co-extruded polycarbonate film with a core LEXAN™ SD8B14 layer and a 50µm LEXAN™ SD8B94L cap-layer with a fine matte texture on both sides. This film has specifically been designed to be 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).

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	295	ISO 306	°C	146
Shrinkage at 130°C, 30min	Internal	%	0.03	Internal	%	0.03
PHYSICAL						
Density	ASTM D792	slug/ft3	2.33	ISO 1183	g/cm3	1.20
Surface Roughness Ra						
(core side)		µin	16.5	ISO4288	µm	0.45
Surface Roughness R3z						
(core side)		µin	59.4	ISO4288	µm	2.34
Surface Roughness Ra						
(cap-layer side)		µin	34.0	ISO4288	µm	1.34
Surface Roughness R3z						
(cap-layer side)		µin	136.1	ISO4288	µm	5.36
OPTICAL						
Light Transmission	ASTM D1003	%	88.2	ASTM D1003	%	88.2
Color: b-value	CIELab,		-1.16	CIELab,		-1.16
	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 representative or the POLYVANTIS Quality Services Department. Reported Values are based on 0.150 mm (0.005") thickness film, except for the Vicat softening temperature which is based on molded parts.

MANUFACTURING SPECIFICATIONS

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

POLYVANTIS
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LEXAN™ POLYCARBONATE FILM & SHEET | Tough, Virtually Unbreakable
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