

Description

Lexan* SD8B24 film is a one side fine velvet (FV), one side fine matt (FM) white opaque polycarbonate film that has specifically been designed to be used in government security documents, such as passport data pages, ID cards, driving licenses , ... It offers great printability and ease of processing (laminating, die-cutting, embossing). Lexan SD8B24 film is available in gauges ranging from 75 - 620 µm and in color WH9B246.

Typical Property Values ♦

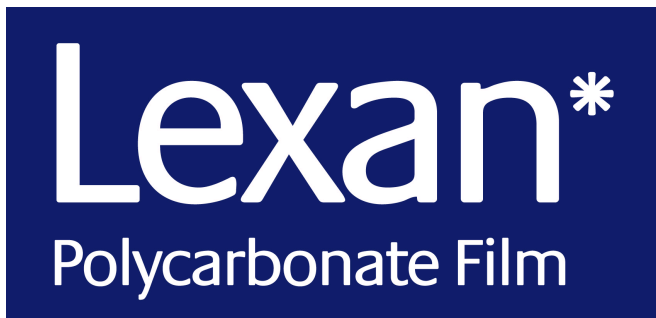
Property	ASTM Test Method	Units (USCS)	Value	ISO Test Method	Units (SI)	Value
Mechanical						
Tensile Strength @ Yield	ASTM D882	psi	7542	ISO 527	MPa	52
Ultimate	ASTM D882	psi	7687	ISO 527	MPa	53
Tensile Modulus	ASTM D882	psi	355 x10 ³	ISO 527	MPa	2450
Tensile Elongation at Break	ASTM D882	%	50	ISO 527	%	50
Tear Strength						
Initiation	ASTM D1004	lbf	12	ASTM D1004	N	53
Propagation	ASTM D1938	lbf	0.6	ASTM D1938	N	2.5
Thermal						
Coefficient of Thermal Expansion, flow	ASTM E831	(x 10 ⁻⁵ / °F)	3.9	ISO 11359	(x 10 ⁻⁵ / °C)	7.1
Glass Transition Temperature	ASTM D3418	°F	300	ISO 11357	°C	149
Vicat Softening Temperature, B50	ASTM 1525	°F	297	ISO 306	°C	147
Heat Deflection Temp, Af 120°C/h	ASTM D648	°F	270	ISO 75 Modified	°C	132
Shrinkage at 130°C, 30min	Internal method	%	0.10	Internal method	%	0.10
Physical						
Density	ASTM D792	slug/ft ³	2.6	ISO 1183	g/cm ³	1.34
Water Absorption, 24 hrs.	ASTM D570	% change	0.12	ISO 62	% change	0.12
Surface Roughness Ra		µin	35 [VFM] 87 [FV]	ISO4288	µm	0.9 [VFM] 2.2 [FV]
Surface Roughness R3z		µin	173 [VFM] 465 [FV]	ISO4288	µm	4.4 [VFM] 11.8 [FV]
Surface Tension	Dyne solutions	Dyne/cm	44 [FM] 39 [FV]	Dyne solutions	Dyne/cm	44 [FM] 39 [FV]
Optical			WH9B246			WH9B246
Light Transmission	ASTM D1003	%	2.14	ASTM D1003	%	2.14
Optical density			1.67			1.67
Color:	CIELab, Reflection,			CIELab, Reflection,		
L-value	D65, 10°		94.79	D65, 10°		94.79
a-value			-0.09			-0.09
b-value			-2.31			-2.31

Manufacturing Specifications

Nominal Gauge Ranges	Min./Max Limit of Nominal
0.075 - < 0.250 mm	± 5%
0.250 - 0.620 mm	± 2.5%

♦ These are typical properties and are not intended for specification purposes. If minimum certifiable properties are required, please contact your local SABIC Innovative Plastics, Specialty Film & Sheet representative or the 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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