POLYVANTIS

PRODUCT DATASHEET

LEXAN™ SD5B74-8G9B2161 FILM

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DESCRIPTION

LEXAN™ SD5B74-8G9B2161 film is a one side fine velvet (FV), one side fine matte (FM) with 70% post-consumer recycled white opaque polycarbonate film, which is typically used in governmental documents, such as passport data pages, ID cards, driving licenses and more. It offers great printability and ease of processing (laminating, die-cutting, embossing). LEXAN™ SD5B74-8G9B2161 film is available in gauges ranging from 50 – 620 µm and in color 8G9B2161.

TYPICAL PROPERTY VALUES*

PROPERTY	ASTM TEST METHOD	UNITS (USCS)	VALUE	ISO TEST METHOD	UNITS (SI)	VALUE
MECHANICAL						
Tensile Strength @ Yield	ASTM D882	psi	7977	ISO 527	MPa	55
Ultimate	ASTM D882	psi	8412	ISO 527	MPa	58
Tensile Modulus	ASTM D882	psi	3.6 x105	ISO 527	MPa	2500
Tensile Elongation at Break	ASTM D882	%	>30%	ISO 527	%	>30%
THERMAL						
Glass Transition Temperature	ASTM D3418	°F	298	ISO 11357	°C	148
Vicat Softening Temperature, B50	ASTM 1525	°F	291	ISO 306	°C	144
Heat Deflection Temp. Af 120°C/h	ASTM D648	°F	255	ISO 75 Modified	°C	124
PHYSICAL						
Density	ASTM D792	slug/ft3	2.6	ISO 1183	g/cm3	1.33
Surface Roughness Ra		µin	35 [FM]	ISO4288	µm	0.9 [FM]
			82 [FV]			2.1 [FV]
Surface Tension	Dyne solutions	Dyne/cm	32 [FM]	Dyne solutions	Dyne/cm	32 [FM]
			32 [FV]			32 [FV]
Pencil Hardness (500 g loading)	ASTM D3363	-	F [FV]/HB			
OPTICAL						
Color:	CIELab, Reflection,			CIELab,		
L-value	D65, 10°		94.4	D65, 10°		94.4
a-value			-0.43			-0.43
b-value			-2.56			-2.56

- 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 0.38 mm (0.015") thickness film unless otherwise noted.

MANUFACTURING SPECIFICATIONS

NOMINAL GAUGE RANGES	MIN./MAX LIMIT OF NOMINAL
0.050 - < 0.250 mm	± 5%
0.250 - 0.620 mm	± 2.5%

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