POLYVANTIS

PRODUCT DATASHEET

LEXAN™ SD5B34-1G9B4380T FILM

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DESCRIPTION

LEXAN™ SD5B34-1G9B4380T Film is a one side fine velvet (FV), one side fine matt (FM) with 30% post-consumer recycled polycarbonate, clear transparent laser markable polycarbonate film that is typically 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, printing) LEXAN™ SD5B34-1G9B4380T Film is available in gauges ranging from 30-150 mm.

TYPICAL PROPERTY VALUES*

PROPERTY	ASTM TEST METHOD	UNITS (USCS)	VALUE	ISO TEST METHOD	UNITS (SI)	VALUE
MECHANICAL						
Tensile Strength @ Yield	ASTM D882	psi	8702	ISO 527	MPa	60
Ultimate	ASTM D882	psi	>9427	ISO 527	MPa	>65
Tensile Modulus	ASTM D882	psi	3.2 x105	ISO 527	MPa	2200
Tensile Elongation at Break	ASTM D882	%	>100	ISO 527	%	>100
THERMAL						
Glass Transition Temperature	ASTM D3418	°F	302	ISO 11357	°C	150
Vicat Softening Temperature, B50	ASTM 1525	°F	295	ISO 306	°C	146
Heat Deflection Temp. Af 120°C/h	ASTM D648	°F	255	ISO 75 Modified	°C	124
PHYSICAL						
Density	ASTM D792	slug/ft3	2.33	ISO 1183	g/cm3	1.20
Surface Roughness Ra		µin	31 [FM]	ISO4288	µm	0.8 [FM]
			98 [FV]			2.5 [FV]
Surface Roughness R3z		µin	145 [FM]	ISO4288	µm	3.7 [FM]
			492 [FV]			12.5 [FV]
Surface Tension	Dyne solutions	Dyne/cm	38 [FM]	Dyne solutions	Dyne/cm	38[FM]
			36 [FV]			36 [FV]
OPTICAL						
Light Transmission	ASTM D1003	%	91.5	ASTM D1003	%	91.5
Color: b-value	CIELab, Reflection,		0.9	CIELab,		0.9
	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 0.1 mm (0.004") thickness film unless otherwise noted.

MANUFACTURING SPECIFICATIONS

NOMINAL GAUGE RANGES	MIN./MAX LIMIT OF NOMINAL
0.030 mm	± 10%
0.050 - 0.150 mm	± 5%

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