POLYVANTIS

PRODUCT DATASHEET

SLX 11010/11A13 FILM

DESCRIPTION

SLX 11010 film is a clear polish-polish film of 10 to 30 mil thickness that may be used alone or in a back molded configuration to provide exceptional weathering, good chemical and scratch resistance and outstanding aesthetics for a wide variety of applications in automotive, telecommunications and outdoor vehicles. It can be printed either first or second surface and retains good aesthetics and performance, even after significant outdoor exposure. Lexan SLX 11A13 film is a polish-matte version (4 to 20mil) that exhibits the same performance, except for optical clarity and haze.

TYPICAL PROPERTY VALUES*

PROPERTY	ASTM TEST METHOD	UNITS (USCS)	VALUE	ISO TEST METHOD	UNITS (SI)	VALUE
MECHANICAL						
Tensile Strength @ Yield	ASTM D882	psi	12100	ISO 527	MPa	75.4
Ultimate	ASTM D882	psi	12600	ISO 527	MPa	85.7
Tensile Modulus	ASTM D882	psi	367000	ISO 527	MPa	2530
Tensile Elongation at Break	ASTM D882	%	82	ISO 527	%	74
Tear Strength						
Initiation	ASTM D1004	lb/mil	1.73		kN/m	245
Propagation	ASTM D1922	g/mil	18		g/mil	10-20
THERMAL						
Coefficient of Thermal	ASTM D5470	Btu/hr/ft^2/°F/i	1.35		W/m°K	0.2
Coefficient of Thermal Expansion	ASTM E831	(x10^{-5}/°F)	3.2	ISO 11359	(x10^{-5}/°C)	5.8
Specific Heat @ 40 °F (4 °C)	ASTM E1269	Btu/lb/°F	0.24		KJ/Kg-°C	1
Glass Transition Temperature	ASTM D3417/D3418	°F	279	ISO 11357	°C	137
Vicat Softening Temperature, B	ASTM 1525-00	°F	290		°C	144
Heat Deflection Temp. by TMA at		°F	252	ISO 75 Modified	°C	122
PHYSICAL						
Specific Gravity	ASTM D792	-	1.26	ISO 1183	kg/m^3	1260
Water Absorption, 24 hrs.	ASTM D570	% change	0.35	ISO 62	% change	0.35
Pencil Hardness	ASTM D3363	-	HB		-	-
Taber Abrasion	ASTM D1044	delta Haze, 50 cycles	19		-	-
OPTICAL						
Refractive Index @ 77 °F (25 °C)	ASTM D542A	-	1.6			
Light Transmission	ASTM D1003	%	88			
Yellowness Index	ASTM D1925	%	3			

Haze	ASTM D1003	%	<1			
Gloss over Flat Black min/max @	ASTM D523-60	-	176			
PROPERTY	**ASTM TEST METHOD**	**UNITS (USCS)**	**VALUE**	**ISO TEST METHOD**	**UNITS (SI)**	**VALUE**
FLAMABILITY						
Non UL flame test, 10 mil	POLYVANTIS		V2			

- 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.

POLYVANTIS

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