

PRODUCT DATASHEET

LEXAN™ 6060 FILM

DESCRIPTION

LEXAN™ 6060 Film is a co-extruded film with improved scratch resistance and a high gloss surface finish. The film has excellent clarity, high heat resistance and excellent formability. LEXAN 6060 Film also provide good dimensional stability and improved pencil hardness. Masking are available on both sides.

TYPICAL PROPERTY VALUES*

PROPERTY	ASTM TEST METHOD	UNITS (USCS)	VALUE	ISO TEST METHOD	UNITS (SI)	VALUE
MECHANICAL						
Tensile Strength @ Yield	ASTM D882	psi	8557	ISO 527	MPa	59
Ultimate	ASTM D882	psi	7687	ISO 527	MPa	53
Tensile Modulus	ASTM D882	psi	333585	ISO 527	MPa	2300
Tensile Elongation at Break (TD/MD)	ASTM D882	%	72/26	ISO 527	%	72/26
Tear Strength						
Initiation	ASTM D1004	g/mil	487		kN/m	188
Propagation	ASTM D1338	g/mil	31		kN/m	12
THERMAL						
Coefficient of Thermal Expansion						
CTE -20~60°C, crossflow	ASTM E831	(x10 ⁻⁵ /°F)	0.29	ISO 11359-2	(x10 ⁻⁵ /°C)	9.9
CTE -20~60°C, inflow	ASTM D831	(x10 ⁻⁵ /°F)	0.24	ISO 11359-2	(x10 ⁻⁵ /°C)	8.2
PHYSICAL						
Density	ASTM D792	slug/ft ³	2.33	ISO 1183	g/m ³	1.19
Water Absorption, 24 hrs.	ASTM D570	% change	0.59	ISO 62	% change	0.16
Pencil hardness (500g)	ASTM D3363	-	2H		-	2H
Taber Abrasion (100 Cycles)	ASTM D1044	Delta Haze%	25		Delta Haze%	25
Surface Tension	Dyne Pens	Dyne	36/38		Dyne	36/38
(PMMA surface/ PC surface)						

PROPERTY	ASTM TEST METHOD	UNITS (USCS)	VALUE	ISO TEST METHOD	UNITS (SI)	VALUE
OPTICAL						
Refractive index @ 25 °C	ASTM D542-00					
First surface			1.49			
Second surface			1.58			
Light Transmission	ASTM D1003	%	93	ISO 489		93
Yellowness Index	ASTM E313	%	0.55			0.55
Haze	ASTM D1003	%	0.2			0.2
Gloss over Flat Black	ASTM D523-60	-		ISO 2813		
@ 20°			80			80
@ 60°			90			90
@ 85° (PMMA surface)			100			100

- ◆ 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 0.250 mm (0.010") thickness film and are tested at machine direction unless otherwise noted.

MANUFACTURING SPECIFICATIONS

NOMINAL GAUGE RANGES	MIN./MAX LIMIT OF NOMINAL
0.007" (0.178mm)	-/+ 10%
0.010"-0.015" (0.254mm-0.381 mm)	-/+ 5%
0.020" (0.508mm)	-/+ 3%

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