POLYVANTIS

PRODUCT DATASHEET

LEXAN™ 6070 FILM

DESCRIPTION

LEXAN™ 6070 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 6070 Film also provide good dimensional stability and improved pencil hardness. Masking are available on both sides.

TYPICAL PROPERTY VALUES*

PROPERTY	ASTM TEST METHOOD	UNITS (USCS)	VALUE	ISO TEST METHED	UNITS (SI)	VALUE
MECHANICAL						
Tensile Strength @ Yield	ASTM D882	psi	8920	ISO 527	MPa	61.5
Ultimate	ASTM D882	psi	7107	ISO 527	MPa	49
Tensile Modulus	ASTM D882	psi	313424	ISO 527	MPa	2161
Tensile Elongation at Break (TD/MD)	ASTM D882	%	24	ISO 527	%	24
THERMAL						
Coefficient of Thermal Expansion						
CTE -20~60°C, crossflow	ASTM E831	($x10^{-5}$/°F)	0.29	ISO 11359-2	($x10^{-5}$/°C)	7.4
CTE -20~60°C, inflow	ASTM D831	($x10^{-5}$/°F)	0.24	ISO 11359-2	($x10^{-5}$/°C)	7.4
PHYSICAL						
Density	ASTM D792	$slug/ft^3$	2.33	ISO 1183	g/m^3	1.19
Water Absorption, 24 hrs.	ASTM D570	% change	0.41	ISO 62	% change	0.11
Pencil hardness (500g)	ASTM D3363	-	1H		-	1H
Taber Abrasion (100 Cycles)	ASTM D1044	Delta Haze%	22.6		Delta Haze%	22.6
Surface Tension	Dyne Pens	Dyne	38/40		Dyne	38/40
(PMMA surface/ PC surface)						
OPTICAL						
First surface			1.49			
Second surface			1.58			
Light Transmission	ASTM D1003	%	92.1	ISO 489		92.1
Yellowness Index	ASTM E313	%	0.4/0.57			0.4/0.57
Haze	ASTM D1003	%	0.1			0.1
Gloss over Flat Black	ASTM D523-60	-		ISO 2813		
@ 20°			83.2			83.2
@ 60°			88.3			88.3
@ 85° (PMMA surface)			97.7			97.7

- 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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