

# LEXAN™ 6070 FILM

## PRODUCT DATASHEET

### 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 METHOD	UNITS (USCS)	VALUE	ISO TEST METHOD	UNITS (SI)	VALUE
<b>MECHANICAL</b>						
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
<b>THERMAL</b>						
Coefficient of Thermal Expansion						
CTE -20~60°C, crossflow	ASTM E831	( $\times 10^{-5}$ )/°F	0.29	ISO 11359-2	( $\times 10^{-5}$ )/°C	7.4
CTE -20~60°C, inflow	ASTM D831	( $\times 10^{-5}$ )/°F	0.24	ISO 11359-2	( $\times 10^{-5}$ )/°C	7.4
<b>PHYSICAL</b>						
Density	ASTM D792	slug/ft <sup>3</sup>	2.33	ISO 1183	g/m <sup>3</sup>	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 (PMMA surface/ PC surface)	Dyne Pens	Dyne	38/40	-	Dyne	38/40
<b>OPTICAL</b>						
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 SABIC representative or the SABIC Quality Services Department. Reported values are based on 0.250 mm (0.010") thickness film and are tested at machine direction unless otherwise noted.

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## MANUFACTURING SPECIFICATIONS

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

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