

LEXAN™ 60610 FILM

PRODUCT DATASHEET

DESCRIPTION

LEXAN™ 60610 is a co-extruded film with improved scratch resistance and a high gloss surface finish. The film offers excellent clarity and optical quality in all thickness, high heat resistance, and superior dimension stability for graphics art applications. LEXAN 60610 film is available in gauges from 0.5 to 1.2 mm. Masking is of the stick type on both sides.

TYPICAL PROPERTY VALUES

PROPERTY	ASTM TEST METHOD	UNITS (USCS)	VALUE	ISO TEST METHOD	UNITS (SI)	VALUE
MECHANICAL						
Tensile Strength @ Ultimate	ASTM D882	psi	8860	ISO 527	MPa	61
Tensile Modulus	ASTM D882	psi	383000	ISO 527	MPa	2640
Tensile Elongation @ Break	ASTM D882	%	7.0	ISO 527	%	7.0
Puncture Resistance (Dynatup)	ASTM D3763	ft-lb/in	37.4		J/mm	2
THERMAL						
Coefficient of Thermal Conductivity at 0.5mm	ASTM D5470	Btu/hr/ft ² /°F/in	1.42		W/m°K	0.21
Coefficient of Thermal Expansion at 0.4mm						
CTE -20~80°C, cross-flow	ASTM E831	(x10 ⁻⁵ /°F)	5.5	ISO 11359	(x10 ⁻⁵ /°C)	9.9
CTE -20~80°C, inflow	ASTM E831	(x10 ⁻⁵ /°F)	4.6	ISO 11359	(x10 ⁻⁵ /°C)	8.2
Glass Transition Temperature (PMMA/PC)	ASTM D3417 / D3418	°F	244/302	ISO 11357	°C	118/150
PHYSICAL						
Density	ASTM D792	slug/ft ³	2.33	ISO 1183	kg/m ³	1190
Water Absorption, 24 hrs.	ASTM D570	% change	0.17	ISO 62	% change	0.17
Surface Roughness (RMS)	ASME B46-1	µm	0.01			
Surface Tension (PMMA/PC)	Dyne Pens	Dyne	36/38-40			
Pencil Hardness (PMMA/PC, 1Kg loading)	ASTM D3363	-	3H/2B			
OPTICAL						
Light Transmission	ASTM D1003	%	93			
Yellowness Index	ASTM D1925	%	<1.0			
Haze	ASTM D1003	%	<0.5			
Gloss over Flat Black min/max @ 60° (PMMA/PC)	ASTM D523-60	-	87.5/103	ISO 2813	-	87.5/103
ELECTRICAL						
Dielectric Constant @ 1.1 GHz	ASTM D150	-	2.78	IEC 60250	-	2.78
Dissipation Factor @ 1.1 GHz	ASTM D150	-	0.007	IEC 60250	-	0.007
Volume Resistivity	ASTM D257	Ω-cm	1.50E+16	IEC 60093	Ω-cm	1.50E+16
Surface Resistivity (PMMA/PC)	ASTM D257	Ω/square	2.1E+15/3.8E+15	IEC 60093	Ω/square	2.1E+15/3.8E+15

◆ 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 0.500 mm (0.020") thickness film unless otherwise noted.

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MANUFACTURING SPECIFICATIONS

NOMINAL GAUGE RANGES	MIN./MAX LIMIT OF NOMINAL
0.500 - 1.200 mm	± 3%

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