SABIC Innovative Plastics™

Lexan* 9030 and Lexan* 9030 TG Sheet

Product Datasheet

Description

Lexan* 9030 sheet is the standard Lexan sheet without UV nor Mar resistant surface treatment. Lexan 9030 sheet combines high impact and temperature resistance with optical clarity and can be utilized for secondary glazing behind existing glazing for economical protection against breakage or intrusion. Lexan 9030 sheet can be cut, sawn, drilled and milled by using standard workshop equipment without the risk of cracking and breakage and is therefore an excellent candidate for fabricating a wide range of indoor applications such as machine guards etc. Lexan 9030 sheet can be easily thermoformed into complex parts while retaining its excellent properties necessary for demanding applications such as vandal proof street furniture. Lexan 9030 sheet may be decorated using a wide variety of modern techniques such as painting and screen printing.

Typical Property Values ◆

Property		Test Method	Unit	Value
Physical				
Density		ISO 1183	g/cm³	1.20
Water absorption, 50% RH / 23 °C		ISO 62	%	0.15
Water absorption, saturation /23°C		ISO 62	%	0.35
Mould shrinkage		SABIC-Method	%	0.6-0.8
Poison's ratio		ASTM-D638	-	0.38
Mechanical				
Tensile stress at yield 50 mm/min		ISO 527	MPa	60
Tensile stress at break 50 mm/min		ISO 527	MPa	70
Tensile strain at yield 50 mm/min		ISO 527	%	6
Tensile strain at break 50 mm/min		ISO 527	%	120
Tensile modulus 1 mm/min		ISO 527	MPa	2300
Flexural stress at yield 2 mm/min		ISO 178	MPa	90
Flexural modulus 2 mm/min		ISO 178	MPa	2300
Hardness H358/30 95		ISO 2039/1	MPa	95
Impact				
Charpy impact, notched		ISO 179/1C	kJ/m²	35
Izod impact, unnotched 23°C		ISO 180/4U	kJ/m²	NB
Izod impact, unnotched -30°C		ISO 180/4U	kJ/m²	NB
Izod impact, notched 23°C		ISO 180/4A	kJ/m²	65
Izod impact, notched -30°C		ISO 180/4A	kJ/m²	10
Thermal				
Vicat Softening Temperature, rate B/120		ISO 306	°C	145
HDT/Ae, 1.8 MPa edgew. 120*1*04/sp=100		ISO 75	°C	127
Thermal conductivity		ISO 8302	W/m.°C	0.2
Coeff.of Lin.Therm.Exp.extr. 23-80°C		ISO 11359-2	1/°C	7.00 E-05
Ball pressure test 125 ±2°C		IEC 60695-10-2	-	Passes
Relative Thermal Index. Electrical Properties		UL746B	°C	130
Relative Thermal Index. Mech. prop.with impact		UL746B	°C	125
Relative Thermal Index. Mech.prop.w/o impact		UL746B	°C	125
Electrical				
Volume Resistivity		IEC 60093	Ohm.cm	10 E15
Relative Permittivity	50/60Hz	IEC 60250	-	2.7
Relative Permittivity	1Mhz	IEC 60250	-	2.7
Dissipation Factor	50/60 Hz	IEC 60250	-	0.001
Dissipation Factor	1 Mhz	IEC 60250	-	0.01
Arc Resistance Tungsten	ASTM-D495	sec.	119	
Optical				
Light transmission ¥) 3 mm		ASTM-D1003	%	89

◆ These property values have been derived from Lexan*resin data for the material used to produce this sheet product. Variation within normal tolerances are possible for various colors. These typical values are not intended for specification purposes. If minimum certifiable properties are required please contact your local SABIC Innovative Plastics, Specialty Film & Sheet representative. All values are measured at least after 48 hours storage at 23°C/50% relative humidity. All properties are measured on injection molded samples. All samples are prepared according ISO 294.

¥) Light transmission value may vary by + or - 5%.

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Light transmission

Transparent Lexan 9030 sheet have excellent light transmission, dependent of thickness between 84 - 87%.

Fire performance

Lexan* 9030 sheet has good fire behavior characteristics. Lexan sheet does not contribute significantly to the spread of fire or to the generation of toxic gases. For details please contact your local sales office.

Product Availability •)

Lexan 9030TG sheet:

Standard Sizes	Masking	Standard Colors
Thin gauge in mm	0.75#-1-1.5	
625 x 1250#	Top side: Coex opal white PE	transparent code 112 and
1250 x 1250	dark blue print	opal white code 82253
Bottom Side:	Coex transparent PE	

Lexan 9030 sheet:

Standard gauge in mm	2-3-4-5-6-8-9.5-12	
2050 x 3050	Top side: Coex opal white PE	transparent code 112 and
2050 x 6050	dark blue print	opal white codes 82253, WH6D060X
Bottom Side:	Coex transparent PE	

#Dimensions only for 0.75 mm.

•) Lexan* 9030 sheet can be supplied by prior arrangements in non - standard widths, lengths and color. Such arrangements may affect prices, terms and/or other conditions of sales and are subject to minimum order quantities.

Lexan* Polycarbonate Sheet Tough Virtually Unbreakable

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