

PRODUCT DATASHEET

LEXAN™ 9030 and LEXAN™ 9030 TG SHEET

DESCRIPTION

LEXAN™ 9030 sheet is the standard general purpose LEXAN sheet. 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 and is therefore an excellent candidate for fabricating a wide range of indoor applications such as machine guards. LEXAN 9030 sheet can be easily thermoformed into complex parts while retaining its excellent properties necessary for demanding applications. 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	Units	Value
Physical			
Density	ISO 1183	g/cm ³	1.20
Water absorption, 50% RH / 23 °C	ISO 62	%	0.15
Water absorption, saturation /23°C	ISO 62	%	0.35
Mechanical			
Yield stress 50 mm/min	ISO 527	MPa	60
Yield strain 50 mm/min	ISO 527	MPa	70
Nominal strain at break 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 strength 2 mm/min	ISO 178	MPa	90
Flexural modulus 2 mm/min	ISO 178	MPa	2300
Impact			
Charpy impact, notched 23°C, 3.0 mm	ISO 179/1C	kJ/m ²	75
Izod impact, unnotched 23°C, 3.0 mm	ISO 180/1U	kJ/m ²	NB
Izod impact, notched 23°C, 3.0 mm	ISO 180/1A	kJ/m ²	70
Thermal			
Vicat Softening Temperature, rate B/120	ISO 306	°C	145
Temperature of deflection under load (type A), 1.8 MPa, flat	ISO 75-2	°C	127
Thermal conductivity	ISO 8302	W/m.°C	0.2
Coefficient of linear thermal expansion, 23-55°C	ISO 11359-2	1/°C	7x 10 ⁻⁵
Ball pressure test 125 ±2°C	IEC 60695-10-2	-	Passes
Relative Thermal Index, Electrical properties	UL746B	°C	130
Relative Thermal Index, Mechanical properties with impact	UL746B	°C	125
Relative Thermal Index, Mechanical properties without impact	UL746B	°C	125
Electrical			
Volume Resistivity	IEC 60093	Ohm.cm	>10 ¹⁵
Dielectric strength, in oil, 3.2 mm	IEC 60243-1	kV/mm	18
Fire Ratings			
Building & Construction			
Europe	EN13823	-	b/s2/d0 (2-6mm)
Electrical			
Vertical burn (50W)	UL94	-	V0 (10mm)
Horizontal burn	UL94 HB	-	HB (0.75-6mm)

- ◆ 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, 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.

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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	1-1.5	
1250 x 2050	Top side: Coex opal white PE dark blue print	transparent code 112 and opal white code 82253
Bottom Side:	Coex transparent PE	

LEXAN 9030 sheet:

Standard gauge in mm	2-3-4-5-6-8-9.5-12-15	
1250 x 2050		
2050 x 3050	Top side: Coex opal white PE dark blue print	transparent code 112 and opal white codes 82253, WH6D060X
2050 x 6050		
Bottom Side:	Coex transparent PE	

^{*)} 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.

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