

# LEXAN™ 9030 AND 9030TG SHEET

## PRODUCT DATASHEET

### 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
<b>PHYSICAL</b>			
Density	ISO 1183	g/cm <sup>3</sup>	1.20
Water absorption, 50% RH, 23 °C	ISO 62	%	0.15
Water absorption, saturation, 23°C	ISO 62	%	0.35
<b>MECHANICAL</b>			
Yield stress 50 mm/min	ISO 527	MPa	>60
Yield strain 50 mm/min	ISO 527	%	6
Nominal strain at break 50 mm/min	ISO 527	%	>100
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
<b>IMPACT</b>			
Charpy impact, notched 23°C, 3.0 mm	ISO 179/1eA	kJ/m <sup>2</sup>	75
Izod impact, unnotched 23°C, 3.0 mm	ISO 180/1U	kJ/m <sup>2</sup>	NB
Izod impact, notched 23°C, 3.0 mm	ISO 180/1A	kJ/m <sup>2</sup>	70
<b>THERMAL</b>			
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 <sup>-5</sup>
Ball pressure test 125 ±2°C	IEC 60695-10-2	-	Pass
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
<b>ELECTRICAL</b>			
Volume resistivity	IEC 60093	Ohm.cm	>10 <sup>15</sup>
Dielectric strength, in oil, 3.2 mm	IEC 60243-1	kV/mm	18

◆ These property values have been derived from LEXAN™ resin data for the material used to produce this sheet product.

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PROPERTY	TEST METHOD	UNITS	VALUE
<b>FIRE RATINGS</b>			
<b>Building &amp; Construction</b>			
Europe	EN13501-1	-	b,s1,d0 (2-6mm)
<b>Electrical</b>			
Horizontal burn	UL94 HB	-	HB (0.75-6mm)

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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 behaviour 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	
1250 x 2050	Top side: Coex opal white PE dark blue print	transparent code 112 and bronze code 5109
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 bronze code 5109, opal white WH4D348O and WH6D060X (opal white max 8mm)
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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