

PRODUCT DATASHEET

LEXAN™ 9030P SHEET

DESCRIPTION

LEXAN™ 9030P sheet is the standard general-purpose LEXAN™ sheet. LEXAN™ 9030P 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™ 9030P 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™ 9030P sheet can be easily thermoformed into complex parts while retaining its excellent properties necessary for demanding applications. LEXAN™ 9030P 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	1.2
Water Absorption, (23°C/sat)	ISO 62	%	0.35
Moisture Absorption (23°C / 50% RH)	ISO 62	%	0.15
MECHANICAL			
Tensile Stress, yield, 50 mm/min	ISO 527	MPa	63
Tensile Strain, yield, 50 mm/min	ISO 527	%	6
Tensile Strain, break, 50 mm/min	ISO 527	%	120
Tensile Modulus, 1 mm/min	ISO 527	MPa	2350
Flexural Stress, yield, 2 mm/min	ISO 178	MPa	90
Flexural Modulus, 2 mm/min	ISO 178	MPa	2300
IMPACT			
Izod Impact, unnotched 80*10*3 +23°C	ISO 180/1U	kJ/m ²	NB
Izod Impact, notched 80*10*3 +23°C	ISO 180/1A	kJ/m ²	70
Charpy Impact, notched, 23°C	ISO 179/2C	kJ/m ²	35
THERMAL			
Thermal Conductivity	ISO 8302	W/m-°C	0.2
CTE, 23°C to 80°C, flow	ISO 11359-2	1/°C	7.E-05
Ball Pressure Test, 125°C +/- 2°C	IEC 60695-10-2	-	PASSES
Vicat Softening Temp, Rate B/120	ISO 306	°C	145
Relative Temp Index, Elec	UL 746B	°C	130
Relative Temp Index, Mech w/impact	UL 746B	°C	130
Relative Temp Index, Mech w/o impact	UL 746B	°C	130
Electrical			
Volume Resistivity	IEC 60093	Ohm-cm	>1.E+15
Dielectric Strength, in oil, 3.2 mm	IEC 60243-1	kV/mm	17

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

PROPERTY	TEST METHOD	UNITS	VALUE
FIRE RATINGS*			
Electrical			
Horizontal burn	UL94 HB	-	HB (0.8-6.56mm)
Dielectric Constant (3 mm sheet & 5 mm sheet @ 1.1 GHz)	ASTM D150	-	2.78
Dissipation Factor (3 mm sheet & 5 mm sheet @ 1.1 GHz)	ASTM D150	-	0.062

* These property values have been derived from Sheet product.

Light Transmission

Transparent LEXAN™ 9030P sheet have excellent light transmission, dependent of thickness with Min.78% & Bronze sheet have light transmission, for all thickness with Min.47% to Max.53%

Fire Performance

LEXAN™ 9030P sheet has good fire behavior characteristics & is UL certified. 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*

Product Code : LEXAN™ 9030P sheet
 Gauge in mm : Thin gauge (TG) 0.8-1-1.25-1.5 and Other gauges 2-3-4-4.8-5-6-7.5-8-9.5-10-12
 Standard Sizes* : TG sizes 1220 x 2440 & 1220 x 30500 only &
 Other gauges sizes 1220 x 2440 & 2050 x 3050
 Masking : LEXAN™ printed masking on top, clear masking on bottom.
 Colors : Clear code 112 and Bronze code 515081

LEXAN™ 9030P 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.

*For more specific details, please refer Baroda Product Guide.

POLYVANTIS

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