POLYVANTIS

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/cm³ | 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/m² | NB |
| Izod Impact, notched 80*10*3 +23°C | ISO 180/1A | kJ/m² | 70 |
| Charpy Impact, notched, 23°C | ISO 179/2C | kJ/m² | 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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POLYCARBONATE FILM & SHEET
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