POLYVANTIS

PRODUCT DATASHEET

PLASTECH™ LX SHEET

DESCRIPTION

PLASTECH™ LX sheet is the standard general purpose polycarbonate sheet. PLASTECH LX sheet combines high impact and temperature resistance with optical clarity and 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.

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			
Tensile Strength at Yield 50 mm/min	ISO 527	MPa	>60
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
IMPACT			
Charpy Impact, notched 23°C, 3.0mm	ISO 179/1eA	KJ/m^2	75
Izod Impact, unnotched 23°C, 3.0mm	ISO 180/1U	KJ/m^2	NB
Izod Impact, notched 23°C, 3.0mm	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), 1.8MPa,	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	7×10^{-5}
Ball Pressure Test 125±2°C	IEC 60695-10-2	-	Pass
ELECTRICAL			
Volume Resistivity	IEC 60093	Ohm.cm	$>10^{15}$
Dielectric Strength, in oil, 3.2mm	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. 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 POLYVANTIS, 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.

PRODUCT AVAILABILITY

PLASTECH™ LX sheet is normally manufactured in the standard sizes listed below. Deliveries from stock or cut to size can be ordered via our customer service organization.

Standard Gauge in mm:	2 - 3 - 4 - 5 - 6 - 8 - 9.5 - 12
Standard sizes:	1250mm x 2050mm, 1220mm x 2440mm (<6mm), 2050 x 3050mm
Standard Gauge in mm:	2 - 2.7 - 3 - 4 - 5
Standard sizes:	1220mm x roll, 2100mm x roll

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