POLYVANTIS

PRODUCT DATASHEET

LEXAN™ 9030TG SHEET

DESCRIPTION

LEXAN™ 9030TG based polycarbonate sheet is the standard grade of LEXAN sheet. Inherently high impact, UV stabilized LEXAN 9030TG sheet is an excellent candidate for glazing for economical protection against breakage or intrusion. As LEXAN has better insulation properties than glass it may contribute to lower energy costs. LEXAN 9030TG sheet may be thermoformed, pressure formed, cold-formed or used in flat applications.

TYPICAL PROPERTY VALUES*

PROPERTY	TEST METHOD	UNITS	VALUE 9030TG *
PHYSICAL			
Specific Gravity	ASTM D792	-	1.20
Refractive Index @ 77°F	ASTM D542A	-	1.586
Light Transmission (Average at	ASTM D1003	%	86
Initial Haze		HU	<1
Rockwell Hardness (M scale)	ASTM D785	-	70
Rockwell Hardness (R scale)	ASTM D785		118
Taber @ 100 cycles	ASTM D1044		
	(ANSI ZI26.1)	% haze	10
Water Absorption, 24 hrs	ASTM D570	%	0.15
Water Absorption, Equilibrium	@ 73°F	%	0.35
MECHANICAL			
Tensile Strength, Yield	ASTM D638	psi	9,500
Tensile Modulus	ASTM D638	psi	345,000
Flexural Strength	ASTM D790	psi	13,500
Flexural Modulus	ASTM D790	psi	345,000
Compressive Strength	ASTM D695	psi	12,500
Compressive Modulus	ASTM D695	psi	345,000
Poisson's Ratio	ASTM E132	-	0.37
Izod Impact Strength Notched @	ASTM D256A	ft-lbs/in	12-16
Unnotched @ 0.118”			60
			(no failure)
Shear Strength @ Yield	ASTM D732	psi	6,000
Shear Modulus	ASTM D732	psi	114,000

PROPERTY	TEST METHOD	UNITS	VALUE 9030TG *
THERMAL			
Coefficient of Thermal Expansion	ASTM D696	in/in/°F	3.75 x10^{-5}
Coefficient of Thermal	ASTM C177	Btuoin/hroft^{2}o°F	1.35
Specific Heat @ 40°C	ASTM C351	BTU/lb-°F	0.30
Heat Deflection Temperature @	ASTM D648	°F	270
@ 66 psi			280
Brittle Temperature (on resin)	ASTM D746	°F	-211
FLAMMABILITY			
Horizontal Burn (Flame Spread)	ASTM D635	in	<1
Ignition Temperature, Self		°F	>1000
UL Flammability (File # 539257)			
ELECTRICAL			
Dielectric Constant @ 60 Hz	ASTM D150	––	3.17
Volume Resistivity	ASTM D257	Ohm-cm	8.2 x 10^{16}
Dissipation Factor (@60 Hz) also known as Power Factor	ASTM D150		0.0009

◆ These typical values are not intended for specification purposes. If minimum certifiable properties are required, please contact your local POLYVANTIS representative.

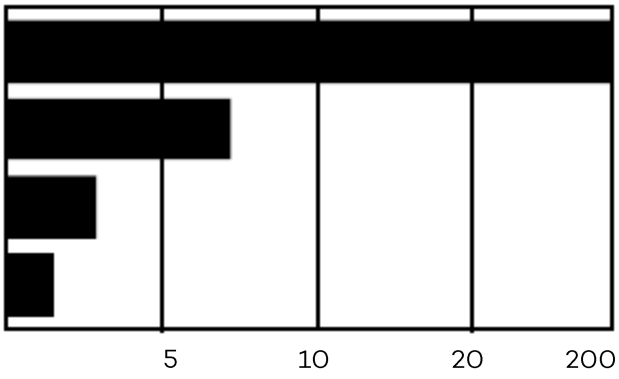
IMPACT RESISTANCE¶

¼" LEXAN™ 9030TG Sheet

¼" Acrylic

¼" Tempered Glass

¼" Laminated Glass



Measured in foot-pound

¶) Drop Dart Test with a 5-lb steel dart and a 1" diameter tip.

PRODUCT AVAILABILITY

Standard Width in/mm:	50.39"/1280mm	49.21"/1250mm	
Standard Gauge	0.03", 0.04", 0.06"	0.118", 0.236"	0.118", 0.236"
	0.75mm, 1mm, 1.5mm	2mm, 3mm, 6mm,	2mm, 3mm, 6mm,
Standard Length in/mm:	96"		
	2439mm		
Standard Colors:	Clear 112, Please contact your sales representative for other color availability		

80 inch width is possible, pls. contact your sales representative for details

POLYVANTIS

Polycarbonate products are sold globally under the trademark LEXAN™ Film & Sheet, owned by SABIC or its subsidiaries or affiliates.

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LEXAN™ POLYCARBONATE FILM & SHEET Tough, Virtually Unbreakable

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