POLYVANTIS

PRODUCT DATASHEET

LEXAN™ 9600 SHEET

DESCRIPTION

LEXAN™ 9600 sheet offers all the benefits of standard, transparent polycarbonate sheet - excellent impact resistance, good stiffness and strength, high optical quality, excellent formability, relatively light weight - but it has significantly better flammability characteristics, making it suitable for a wide variety of applications in the transportation, electrical and electronic industries.

TYPICAL PROPERTY VALUES*

PROPERTY	TEST METHOD	UNITS	VALUE
Physical			
Density	ISO 1183	g/cm³	1.24
Water absorption,	ISO 62	%	0.35
equilibrium, 23°C			
Rockwell Hardness	ASTM D785		M74
Mechanical			
Tensile Strength @ Yield	ISO 527	MPa	60
Tensile Strength, break	ISO 527	MPa	70
Tensile modulus	ISO 527	MPa	2350
Tensile elongation, break	ISO 527	%	120
Flexural strength, yield	ISO 178	Mpa	90
Flexural modulus	ISO 178	Mpa	2300
Izod notched impact, 23°C	ISO 180/1A	kJ/m²	65
Gardner impact, 23°C	ASTM D3029	J	>40
-30°C		J	>40
Taber Abrasion, CS17, 1000g, 1000cycles	ASTM D1242	mg	9
Thermal			
Vicat Softening Temp, Rate B /120	ISO 306	°C	145
DTUL, 0.45 MPa	ISO 75/Be	°C	138
Thermal Conductivity	ASTM C 177	W/m°C	0.20
Mold Shrinkage	ISO 527	%	0.6-0.8
Coefficient of Thermal Expansion	ASTM D696	1/°C	$7x10^{-5}$
Electrical			
Dielectic Strength	IEC 60243	kV/mm	17
Dielectic Constant, 60Hz			3.17
1 MHz			2.96
Dissipation Factor 50Hz	ASTM D150		0.001
	1MHz		0.01
Volume Resistivity, 23°C	IEC 60093	Ohm.cm	$>10^{15}$

PROPERTY	TEST METHOD	UNITS	VALUE
Flammability Ratings			
UL 94	V-2 at 0.34" - 0.089" in Clear Only		
	V-0 at 0.090" - 0.117" in Clear and Black only		
	V-0 at 0.118" and above in all colors		
FAR 25.853	@ .030 - .125" Passes App F: 60-second and 12-second vertical, and 2.5 in./min.		

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

UL File Number: E539157

POLYVANTIS

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LEXAN™ POLYCARBONATE FILM & SHEET Tough, Virtually Unbreakable

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