POLYVANTIS

PRODUCT DATASHEET

LEXAN™ SGC504 / SGC504SW

DESCRIPTION

LEXAN™ SGC504 / SGC504SW sheet is a UV-resistant sign grade sheet that is available in white color. LEXAN SGC504 / SGC504SW sheet is ideal for decorated outdoor signs, including pole signs and channel letters. LEXAN SGC504 / SGC504SW sheet can be thermoformed with crisp detail, offers excellent aesthetics, withstands high impact and abuse, and carries a limited 10 year written warranty against breakage.

TYPICAL PROPERTY VALUES*

PROPERTY	TEST METHOD	UNITS	VALUE
Physical			
Specific gravity	ASTM D792	-	1.20
Rockwell Hardness	ASTM D785	-	M70,R118
Mechanical			
Tensile Strength	ASTM D638	psi	
Ultimate			9,500
Flexural Strength	ASTM D790	psi	10,500
Flexural Endurance	ASTM D671	psi	
@ 1,800 cycles/Min.,73°F,50% RH			1,000
Elongation	ASTM D638	%	110
Modulus of Elasticity	ASTM D638	Psi	340,000
Izod Impact Strength, up to 125 mils	ASTM D256A	ft-lbs/in	
Notched			12-16
Drop Ball Impact Strength, 1" dia.dart @ .236	POLYVANTIS Test ##	ft-lbs	
@ 73°F			>200
@ 32°F			>200
@ 0°F			>200
Thermal			
Coefficient of Thermal Expansion	ASTM D696	in/in/°F	3.75×10^{-5}
Heat Deflection Temperature	ASTM D648	°F	
@ 264 psi			260
@ 66 psi			280

- These typical values are not intended for specification purposes. If minimum certifiable properties are required please contact your local POLYVANTIS Innovative Plastics, Specialty Film & Sheet representative.

See actual Product Warranty for conditions that may apply.

Measured by dropping a 25-pound dart (1" dia. tip) from a height of 8 feet.

LIGHT TRANSMISSION

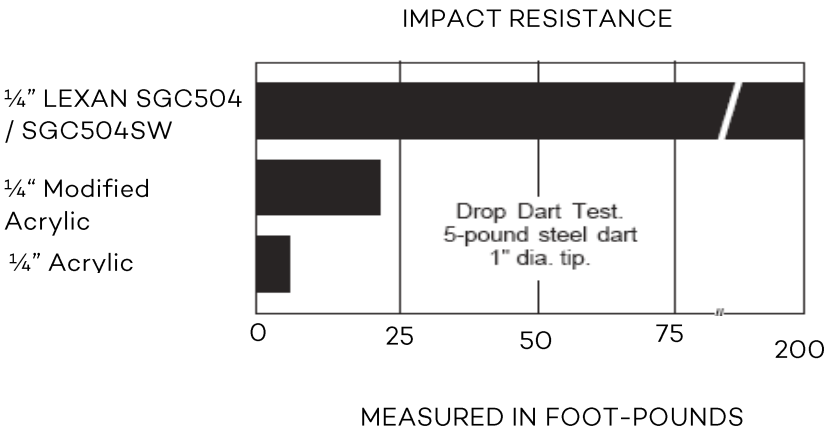
GAUGE (MM)*	GAUGE (IN)	TEST METHOD	LT (%)	DEVIATION
2.4	0.094	ASTM D1003	34	± 3
3.0	0.118	ASTM D1003	28	± 3
3.8	0.150	ASTM D1003	24	± 3
4.5	0.177	ASTM D1003	22	± 3
6.0	0.236	ASTM D1003	15	± 3

*SGC504 is offered in 2.4, 3.0, 3.8, 4.5, 6.0, and 9.5 mm gauges (0.094, 0.118, 0.150, 0.177, 0.236, and 0.375 inches)

UL FILE NUMBER: E539157

IMPACT RESISTANCE

LEXAN™ SGC504 / SGC504SW sheet has up to 30 times the impact strength of “Acrylic” and 10 times the impact strength of “Modified Acrylic".



POLYVANTIS

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polyvantis.com

LEXAN™ POLYCARBONATE FILM & SHEET Tough, Virtually Unbreakable

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