POLYVANTIS

PRODUCT DATASHEET

LEXAN™ SGC404/SGC404SW SHEET

DESCRIPTION

LEXAN™ SGC404 / SGC404SW sheet is a UV-resistant sign grade sheet which is available in translucent colors, including white. LEXAN SGC404 / SGC404SW sheet is also available in standard and custom colors. LEXAN SGC404 / SGC404SW sheet is ideal for decorated outdoor signs, including pole signs and channel letters. LEXAN SGC404 / SGC404SW sheet can be thermoformed with crisp detail, offers excellent aesthetics, withstands high impact and abuse, and carries a limited written warranty against breakage and weathering.

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.

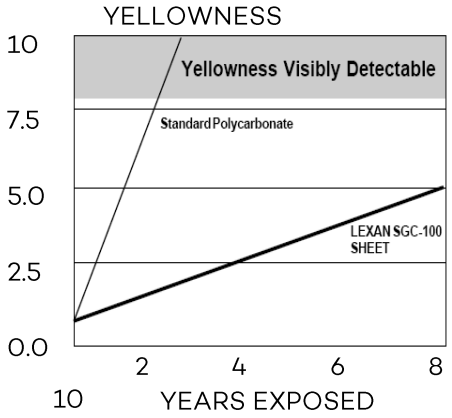
See actual Product Warranty for conditions that may apply.

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

UL FILE NUMBER: E539157

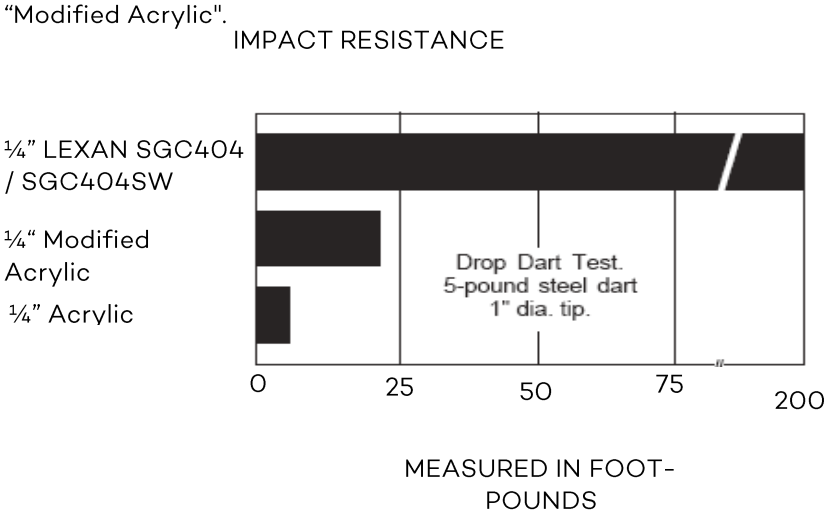
UV RESISTANCE

LEXAN™ SGC404 / SGC404SW sheet was exposed to accelerated QUV weathering. After exposure comparable to 10 years in South Florida, LEXAN SGC404 / SGC404SW sheet showed only minimal in yellowness, light transmission and clarity.



IMPACT RESISTANCE

LEXAN™ SGC404 / SGC404SW sheet has up to 30 times the impact strength of “Acrylic” and 10 times the impact strength of
“Modified Acrylic".



POLYVANTIS

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

polyvantis.com

LEXAN™ POLYCARBONATE FILM & SHEET Tough, Virtually Unbreakable

LEXAN is a trademark of SABIC