

## Description

Lexan SGC100 Solar Grade Coextruded sheet for signs combines the impact strength of Lexan polycarbonate sheet with a proprietary UV-resistant cap layer that provides long-term protection against weathering. Lexan SGC100 sheet is backed by a ten-year limited written warranty# against yellowing, loss of light transmission and breakage. Providing long-lasting clarity over a wide range of environments, Lexan SGC100 sheet offers extended service life and reduced life-cycle material costs. It is an excellent candidate for all types of thermoformed or flat signs, whether screen printed, painted, or decorated with vinyl graphics.

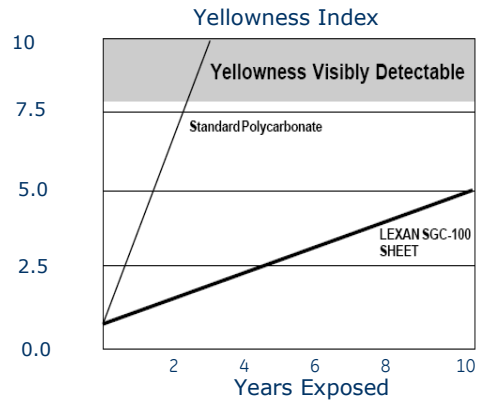
## Typical Property Values ♦

Property	Test Method	Unit	Value
<b>Physical</b>			
Specific gravity	ASTM D792	-	1.20
Light Transmission @ .118" thickness	ASTM D1003	%	87
Rockwell Hardness	ASTM D785	-	M70, R118
<b>Mechanical</b>			
Tensile Strength Ultimate	ASTM D638	psi	9,500
Tensile Modulus	ASTM D638	psi	285,000
Flexural Strength	ASTM D790	psi	13,500
Flexural Modulus	ASTM D790	psi	340,000
Compressive Strength	ASTM D695	psi	12,500
Izod Impact Strength, up to 125 mils Notched	ASTM D256A	ft-lbs/in	12-16
Drop Ball Impact Strength, 1" dia.dart @ .236 thickness	SABIC Test ##	ft-lbs	
@ 73°F			> 200
@ 0°F			> 200
<b>Thermal</b>			
Coefficient of Thermal Expansion	ASTM D696	in/in/°F	3.75 x 10 <sup>-5</sup>
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 SABIC 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.
- \* Lexan is a trademark of SABIC Innovative Plastics IP BV

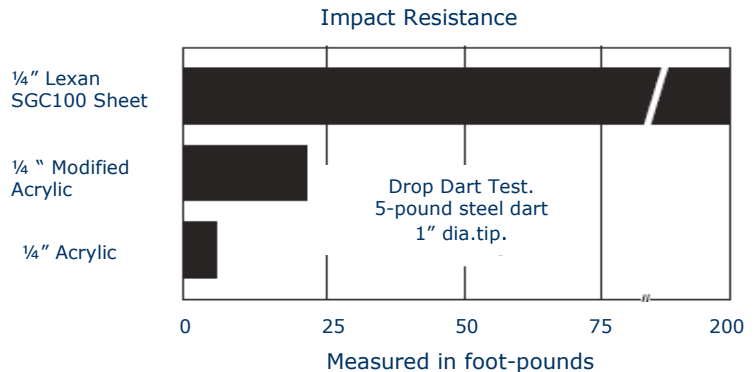
## UV Resistance

Lexan SGC100 sheet was exposed to accelerated QUV weathering. After exposure comparable to 10 years in South Florida, Lexan SGC100 sheet showed only minimal in yellowness, light transmission, and clarity.



## Impact Resistance

Lexan SGC100 sheet has 30 up to times the impact strength of acrylic and 10 times that of "impact-modified" acrylic.



**Lexan\*** Tough  
Polycarbonate Sheet Virtually  
Unbreakable

\* Trademark of SABIC Innovative Plastics IP BV

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