

## Description

Matte-finish Lexan SG308 sheet for signs combines the impact strength of Lexan polycarbonate sheet with a proprietary, UV-resistant surface treatment that protects it from weathering. Lexan SG308 sheet is backed by a five-year limited warranty against yellowing, loss of light transmission and breakage#. Lexan SG 308 sheet has a matte surface on one side and a polished surface on the other. It is ideally suited for all types of thermoformed or flat signs where reduced reflection and glare are required.

## Typical Property Values ♦

Property	Test Method	Unit	Value
<b>Physical</b>			
Specific gravity		-	1.20
Light Transmission	@ .125" (Average)	%	82
Refractive Index	@ 77°F	-	1.586
Rockwell Hardness	ASTM D785	-	M70, R118
<b>Mechanical</b>			
Tensile Strength	@ Yield @ Ultimate	ASTM D638	psi 9,000 9,000
Tensile Modulus		ASTM D638	psi 280,000
Flexural Streng	@ Yield	ASTM D790	psi 12,500
Flexural Modulus		ASTM D790	psi 333,000
Elongation Ultimate		ASTM D638	% 70
Poisson's Ratio		-	- 0.37
Compressive Strength		ASTM D695	psi 12,500
Drop Ball Impact Strength, 1/8" @ 73 °F		SABIC Test ##	ft-lbs > 200
	@ 32 °F		> 200
	@ 0°F		> 200
Notched Izod Impact		ASTM D256A	ft-lbs/in 12-16
<b>Thermal</b>			
Coefficient of Thermal Expansion		ASTM D696	in/in/°F 3.75 x 10 <sup>-5</sup>
Specific Heat	@ 40° C		cal/gm/°C 0.30
Heat Deflection Temperature	@ 264 psi	ASTM D648	°F 260
<b>Electrical</b>			
Dielectric Strength, Short Time @125 mils		ASTM D149	V/mil 380
Dielectric Constant, 23°C @ 60 Hz		ASTM D150	- 2.9
	@ 1,000 Hz		2.9
	@ 1,000,000 Hz		2.9
Dissipation Factor	@ 60 Hz	ASTM D150	- 0.009
	@ 1,000 Hz		0.01
Volume Resistivity	@ 23°C	ASTM D257	ohm-cm 8 x 10 <sup>-16</sup>

♦ 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.

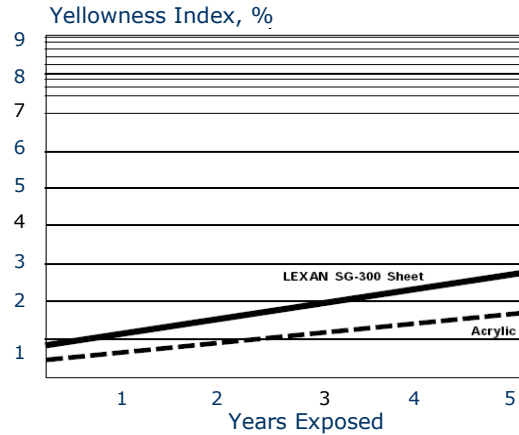
# Request details of limited written warranty and maintenance instructions.

## 5-lb steel ball dropped from a height of 40 feet.

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## UV Resistance

Lexan SG 308 sheet was compared to acrylic in Florida weathering tests. After five years, Lexan SG 308 sheet showed only minimal changes in light transmission and clarity.



## Impact Resistance

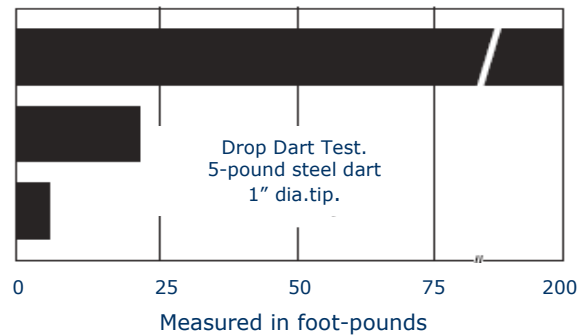
Virtually unbreakable, Lexan SG 308 sheet has 30 times the impact strength of acrylic and 10 times that of "impact-modified" acrylic.

¼" Lexan  
SG 308 Sheet

¼" Modified  
Acrylic

¼" Acrylic

### Impact Resistance



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

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