

# LEXAN™ SGC308 SHEET

# PRODUCT DATASHEET

#### DESCRIPTION

Matte-finish LEXAN™ SGC308 sheet for signs combines the impact strength of LEXAN polycarbonate sheet with a proprietary, UVresistant 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<sup>#</sup>. LEXAN SGC308 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	UNITS	VALUE
Physical				
Specific gravity		ASTM D792	-	1.20
Light Transmission (a.125" (Average)		ASTM D1003	%	82
Refractive Index (	ු 77°F	ASTM D542A	-	1.586
Rockwell Hardness		ASTM D785	-	M70,R118
Mechanical				
Tensile Strength @ Yield		ASTM D638	psi	9,000
(a) Ultimate				9,000
Tensile Modulus		ASTM D638	psi	280,000
Flexural Strength		ASTM D790	psi	12,500
Flexural Modulus		ASTM D790	Psi	333,000
Elongation		ASTM D638	%	70
Poisson's Ratio		-	-	0.37
Compression Strength		ASTM D695	Psi	12,500
Izod Impact Strength, up to 125 mils		ASTM D256A	ft-lbs/in	·
Notched				12-16
Drop Ball Impact Strength, 1/8" dia.dart (a) .236		SABIC Test ##	ft-lbs	
thickness				
(a) 73°F				>200
(a) 32°F				>200
ⓐ 0°F				>200
Thermal				- 200
Coefficient of Thermal Expansion		ASTM D696	in/in/°E	$3.75 \times 10^{-5}$
Specific Heat (a) 40° C		, 1011100, 10	cal/gm/°C	0.30
Heat Deflection Temperature		ASTM D648	°F	0.00
@ 264 psi				260
Electrical				
Dielectric Strength, Short Time @ 125 mils		ASTM D149	V/mil	380
Dielectric Constant, 23°C (a) 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		8 × 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.

<sup>#</sup> See actual Product Warranty for conditions that may apply.

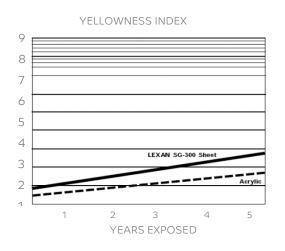
## 5-lb steel ball dropped from a height of 40 feet.

™ LEXAN is a trademark of SABIC.

## UL FILE NUMBER: E121562

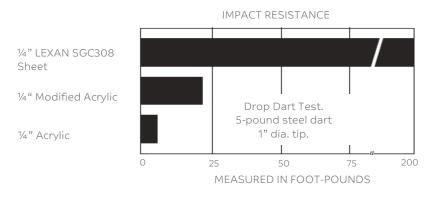
## **UV RESISTANCE**

LEXAN™ SGC308 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

LEXAN SGC308 sheet has up to 30 times the impact strength of "Acrylic" and 10 times the impact strength of "Modified Acrylic".



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