

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[#]. 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	3.75×10^{-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 ⁻¹⁶

• 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.

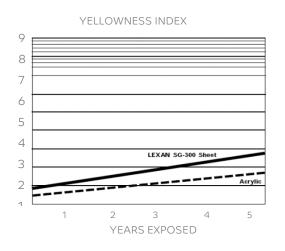
5-lb steel ball dropped from a height of 40 feet.

™ LEXAN is a trademark of SABIC.

UL FILE NUMBER: E121562

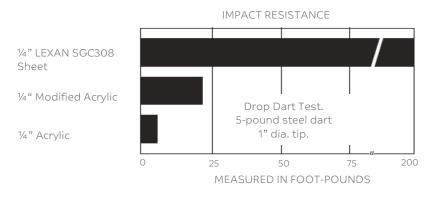
UV RESISTANCE

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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