

LEXAN™ SGC308

PRODUCT DATASHEET

DESCRIPTION

Matte-finish LEXAN SGC308 sheet for signs combines the impact strength of LEXAN polycarbonate sheet with a proprietary, UV-resistant surface treatment that protects it from weathering. LEXAN SGC308 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 @.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
@ 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 @ .236 thickness	SABIC 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}
Specific Heat @ 40° C		cal/gm/°C	0.30
Heat Deflection Temperature @ 264 psi	ASTM D648	°F	260
Electrical			
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		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.

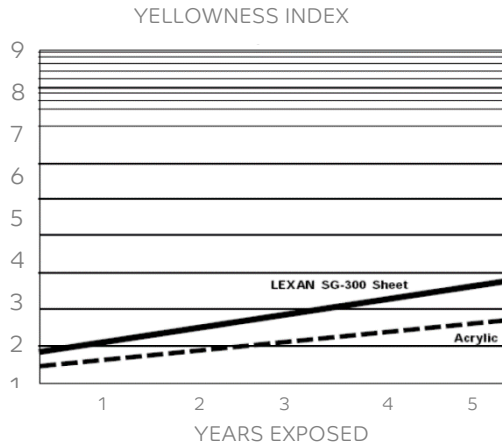
5-lb steel ball dropped from a height of 40 feet.

™ LEXAN is a trademark of SABIC.

UL FILE NUMBER: E121562

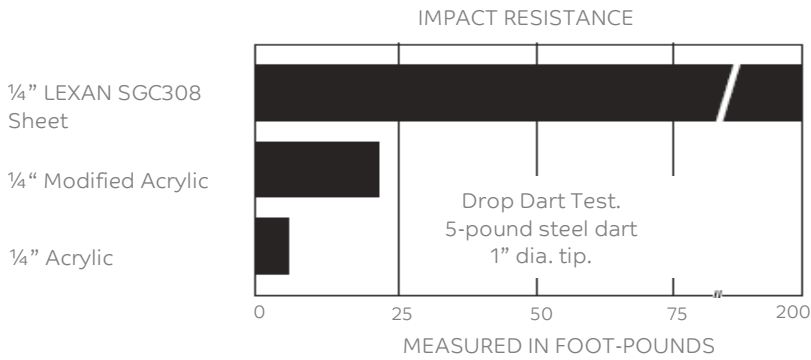
UV RESISTANCE

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".



CONTACT US:

Middle East and Africa

SABIC Global Headquarters
PO Box 5101
Riyadh 11422
Saudi Arabia
T +966 (0) 1 225 8000
F +966 (0) 1 225 9000
E info@sabic.com

Americas

Functional Forms
2500 City West
Boulevard Suite 100
Houston, TX 77042
USA
Toll-free (800) 323 3783
F (888) 443 2033
E spinside.sales@sabic.com

Europe

Functional Forms
Plasticslaan 1
4612 PX
Bergen op Zoom
The Netherlands
T +31 (0)164 293678
F +31 (0)164 293272
E ff.info@sabic.com

Asia Pacific

Functional Forms
2550 Xiupu Road
Pudong
201319 Shanghai
China
T +86 21 2037 8188
F +86 21 2037 8288
E ff.info@sabic.com



DISCLAIMER: THE MATERIALS, PRODUCTS AND SERVICES OF SAUDI BASIC INDUSTRIES CORPORATION (SABIC) OR ITS SUBSIDIARIES OR AFFILIATES ("SELLER") ARE SOLD SUBJECT TO SELLER'S STANDARD CONDITIONS OF SALE, WHICH ARE AVAILABLE UPON REQUEST. INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS DOCUMENT ARE GIVEN IN GOOD FAITH. HOWEVER, SELLER MAKES NO EXPRESS OR IMPLIED REPRESENTATION, WARRANTY OR GUARANTEE (i) THAT ANY RESULTS DESCRIBED IN THIS DOCUMENT WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN OR APPLICATION INCORPORATING SELLER'S MATERIALS, PRODUCTS, SERVICES OR RECOMMENDATIONS. UNLESS OTHERWISE PROVIDED IN SELLER'S STANDARD CONDITIONS OF SALE, SELLER SHALL NOT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS, SERVICES OR RECOMMENDATIONS DESCRIBED IN THIS DOCUMENT. Each user is responsible for making its own determination as to the suitability of Seller's materials, products, services or recommendations for the user's particular use through appropriate end-use and other testing and analysis. Nothing in any document or oral statement shall be deemed to alter or waive any provision of Seller's Standard Conditions of Sale or this Disclaimer, unless it is specifically agreed to in a writing signed by Seller. Statements by Seller concerning a possible use of any material, product, service or design do not, are not intended to, and should not be construed to grant any license under any patent or other intellectual property right of Seller or as a recommendation for the use of any material, product, service or design in a manner that infringes any patent or other intellectual property right. SABIC and brands marked with ™ are trademarks of SABIC or its subsidiaries or affiliates, unless otherwise noted.

© 2021 Saudi Basic Industries Corporation (SABIC). All Rights Reserved.

Any brands, products or services of other companies referenced in this document are the trademarks, service marks and/or trade names of their respective holders.
