LEXAN™ SG308 SHEET

PRODUCT DATASHEET

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	ASTM TEST METHOD	UNITS (USCS)	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		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		ft-lbs/in	> 200
@ 32 °F			> 200
@ 0°F			> 200
Notched Izod Impact	ASTM D256A	ft-lbs/in	12-16
Thermal			
Coefficient of Thermal Expansion	ASTM D696	in/in/°F	3.75 x 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	ohm-cm	8 x 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.
Request details of limited written warranty and maintenance instructions.
5-lb steel ball dropped from a height of 40 feet.
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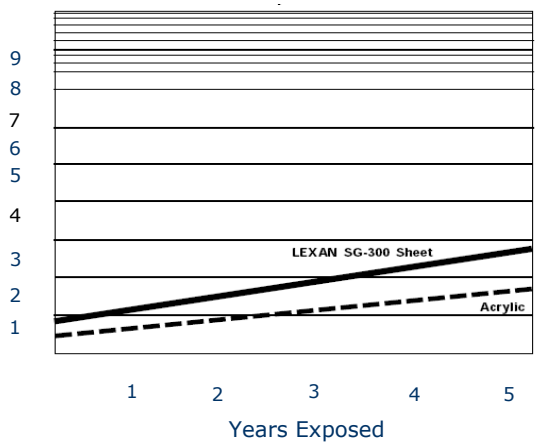
UL File Number: E121562

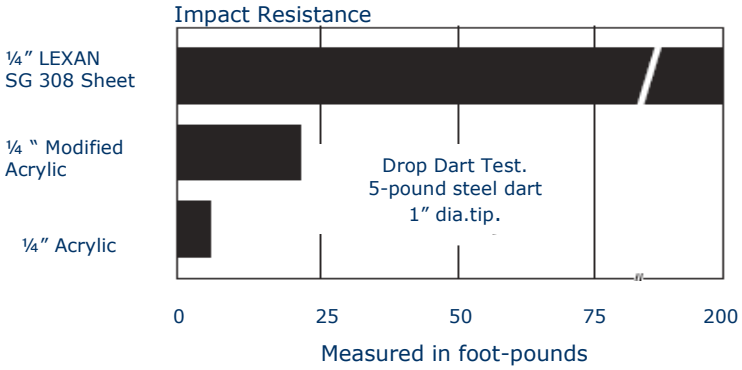
UV RESISTANCE

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



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