

LEXANTM EXTRITETM SHEET

PRODUCT DATASHEET

DESCRIPTION

LEXANTM EXTRITETM sheet is a transparent UV and abrasion resistant formable sheet grade. This product is especially developed for extreme outdoor weather conditions. For example sandstorms and high solar energy areas. The intrinsic properties of LEXAN polycarbonate combined with a one side protected surface, result in improved abrasion, chemical and UV resistance. This is backed by a unique fifteen (15) year limited warranty against breakage, yellowing and loss of light transmission.

TYPICAL PROPERTY VALUES◆

TEST METHOD	UNITS	VALUE
ASTM D792		1.20
ASTM E9070		
		25
		29
		31
ASTM D1003	%	88
ASTM D638	psi	9,300
ASTM D638	psi	345,000
ASTM D790	psi	14,500
ASTM D790	psi	360,000
ASTM D671	psi	1,000
ASTM D695	'	10,400
ASTM D638	%	85
ASTM D256A	Ft-lbs-in	12-18
SABIC Test#	Ft-lbs	>200
		>200
ASTM D1044	%	2.3
ASTM D1044	%	6
ASTM D1044	%	< 15
In house	%	1.3
DIN 52348:1985	%	1
ASTM D696	°in/in/°F	3.75 x 10 ⁻⁵
SABIC Test	%	1
ASTM D648	°F	
		270
ASTM D1929	°F	854 (for 0.118")
		1027 (for 0.118")
	ASTM D792 ASTM E9070 ASTM D638 ASTM D638 ASTM D638 ASTM D790 ASTM D790 ASTM D671 ASTM D695 ASTM D695 ASTM D638 ASTM D256A SABIC Test# ASTM D1044 ASTM D1044 ASTM D1044 In house DIN 52348:1985 ASTM D696 SABIC Test ASTM D648	ASTM D792 ASTM E9070 ASTM D638 ASTM D638 ASTM D790 ASTM D790 ASTM D790 ASTM D671 ASTM D695 ASTM D638 ASTM D695 ASTM D638 ASTM D644 ASTM D1044 B

[◆] These property values have been derived from LEXAN™ resin data for the material used to produce this sheet product. Variation within normal tolerances are possible for various colors. These typical values are not intended for specification purposes. If minimum certifiable properties are required please contact your local SABIC, Specialty Film & Sheet representative.

[#] Measured by dropping a 5-pound dart (1"dia. tip) from a height of 40 feet.

[™] Trademark of SABIC.

SURFACE PROTECTION

LEXANTM EXTRITETM sheet has a one side UV-/abrasion/chemical surface protection, with the opposite side being UV-protected, giving excellent durability to sustain outdoor weathering. This superior UV-/abrasion/chemical-resistance and toughness of LEXAN EXTRITE sheet is backed by a 15 year limited written warranty against breakage, yellowing and loss of light transmission.

LIGHT TRANSMISSION

Transparent LEXAN EXTRITE sheet have excellent light transmission, between 87 and 90%. LEXAN EXTRITE sheet is available in translucent/clear version and in opal white, bronze and grey colour. LEXAN EXTRITE is essential opaque to all wavelengths below 385 nanometres. This useful shielding property can help prevent discoloration of sensitive materials placed under or behind LEXAN EXTRITE sheet.

FORMABLE SHEET

LEXAN EXTRITE sheet is thermoformable and can be formed into the desired geometry whilst retaining the UV resistant protection specially developed for weather resistant applications. This can be done under defined conditions. For more information, please contact your SABIC representative.

CLEANING

For cleaning instructions, consult guidelines. Do not use abrasive or high alkaline cleaners; never scrape the sheet with squeegees, razor blades or other sharp instruments. Do not clean LEXAN EXTRITE sheet products in hot sun or at elevated temperatures. Afterwards, a warm final wash should be made, using a mild soap solution and ending with a thorough rinsing with cold water.

CHEMICAL RESISTANCE

LEXAN EXTRITE sheets provide an improved chemical resistance compared to traditional polycarbonate sheet. Especially to chemicals like kerosene and xylene. In applications where the product will come into contact with aggressive chemicals, specific testing of the material will always be required.

FIRE TEST PERFORMANCE

LEXAN EXTRITE sheet has good fire performance against many national fire codes dependent on thickness and color; please check with the local sales office for details.

Product Availability:

Product Code: EXTRITE1

Availability: 49.21" Width, 39.37"-118"length. Longer lengths on request.

Thicknesses: 0.157" – 0.236"

Standard Colors: Clear -112, Opal - WH7D287O, WH4D348O, Bronze - 5109 & Grey - GY6E575T

SPV (standard price volume): 2200 lb

SAFETY

The processing guidance given in this documentation is given in good faith and the trust that in all cases you wear the correct Personal Protective Equipment (PPE), e.g. helmet, proper gloves, safety goggles etc. to safely fabricate, e.g. (but not limited to) sawing, cutting, forming our sheets and films. In all cases you should follow local and national regulations around the wear of PPE's prescribed or mandatory to perform these tasks in a safely manor.

SOUND INSULATION (noise reduction dB)

Thickness (mm)	ISO 717-1 (R _W)	EN 1793-2 (DL _R)
8	32	28
9.5	33	29
12	34	30
15	35	32

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