

CHEMISTRY THAT MATTERS™

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sabic

LEXAN™ EXTRITE™ SHEET

A NEW LEXAN (PC) SHEET WITH A UNIQUE SURFACE TREATMENT
FOR EXTREME OUTDOOR SOLUTIONS AND APPLICATIONS



CHEMISTRY THAT MATTERS™



FUNCTIONAL FORMS INTRODUCING LEXAN™ EXTRITE SHEET

A new LEXAN™ Polycarbonate (PC) Sheet with unique surface treatment, which results in excellent abrasion resistance of the sheet with improved chemical resistance and resistant to extreme weather conditions like sand and snow storms.

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TOUGH CHALLENGES FACING ARCHITECTS AND BUILDERS

SABIC's Functional Forms business has been working to bring its portfolio of leading edge materials to bear in architectural glazing applications for over 40 years.

Virtually unbreakable, high optical quality solid LEXAN™ (PC) sheet products with highly specialized properties are often a top choice for answering the specific needs of a variety of structures. As an addition to this leading edge portfolio, SABIC is launching LEXAN™ EXTRITE™ sheet, which provides protection to your most demanding applications.

LEXAN™ EXTRITE™ SHEET

Introducing LEXAN™ EXTRITE™ sheet, a transparent polycarbonate solid sheet with proprietary UV protection on both sides offering excellent weathering properties. With its excellent impact and scratch resistance it is a perfect candidate for a wide variety of building and construction applications.

To the new protective layer, the material is fulfilling a demand for areas where abrasion and scratch resistance and weathering is important. The intrinsic properties of LEXAN™ polycarbonate combined with a one side protective layer results in improved abrasion, chemical and UV resistance.

Transparent LEXAN™ EXTRITE™ sheet has an excellent light transmission, between 87-90% and can be used for buildings in demanding climates or in solutions with south facing aspects.

LEXAN™ EXTRITE™ sheet has an expected lifetime of at least 30 years and comes with a 15 year written limited warranty.

ADDITIONAL PROPERTIES

- Cold curving
- Cold bending
- Thermoformable

AVAILABILITY

- 1 side abrasion/chemical resistant
- Back side UV-protected
- Standard colors:
 - Clear (112)
 - Opal (WH7D2870 50% LT, WH4D3480 25% LT)
 - Bronze (5109)
 - Grey (GY6E75T)
- Thicknesses: 2 to 6 mm
- Width: 1250mm
- Length: 1000-3000mm (39.37-118.1")
longer lengths on request
- Standard Price Volume (SPV): 1000kgs or 1 pallet



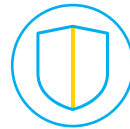
SAND ABRASION
- HIGH SCRATCH RESISTANCE



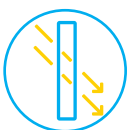
HIGH IMPACT STRENGTH
- UP TO 250 TIME STRONGER
THAN GLASS



CHEMICAL
RESISTANCE



UNIQUE 15 YEAR
LIMITED WARRANTY



TRANSPARENCY
UP TO 87-90%



THERMOFORMABLE



UV-RESISTANCE



WEATHER RESISTANCE



RESISTANT TO EXTREME WEATHER CONDITIONS

With the changing climate facing extreme weather conditions, SABIC has developed a new LEXAN™ Polycarbonate (PC) Sheet with a unique surface treatment, which results in excellent abrasion resistance of the sheet with improved chemical resistance and resistant to extreme weather conditions like sand storms and areas where abrasion is a high risk like bus shelters, ski gondolas, advertisement pillars, sound walls and many more....

PROCESSING

From high speed trains to street furniture, and from snowmobiles to motorway signs, LEXAN™ EXTRITE™ sheet products are designed and manufactured in a diverse range of shapes and sizes. One of the most common methods of producing these parts is thermoforming.



Thermoforming LEXAN™ EXTRITE™ sheet, a polycarbonate material, is a manufacturing process where a plastic sheet is heated to its softening temperature, formed to a specific shape in or over a mold by using vacuum, and trimmed to create a usable product.

Today, thermoforming can offer many benefits over other thermoplastics processes as well as other traditional materials like steel and glass reinforced plastics. The thermoforming process requires a relatively low level of forming pressure, so tooling can be constructed less expensively than tooling used in other processes. Depending on the part size, shape, and quantity, thermoforming can be an efficient and very cost-effective production process for many plastic parts. Tooling can

be produced in a very short time-frame relative to other plastic processes and may provide faster production for large volume runs compared to rotationally molded or fiberglass reinforced plastic processes; resulting in quicker time to market.

Next to providing an excellent part volume/quality ratio, thermoforming processes enables freedom of design and addition of small details in the part. Also pre-colored thermoplastic sheet can give the final part a good surface finish, which can eliminate the need for painting. By using LEXAN™ EXTRITE™ sheet, you can enhance your design opportunities with UV-resistant surface while thermoforming your product.

PUT LEXAN™ EXTRITE™ TO THE TEST

LEXAN EXTRITE
SHEET

TRADITIONAL
POLYCARBONATE SHEET

5%

TABER HAZE TEST
AFTER 500 CYCLES

37%

1%

SAND ABRASION
TEST AFTER 1 TIME

36%

1%

METAL WOOL TEST
AFTER 10 TIMES

19%

LEXAN™ EXTRITE™ SHEET
The perfect polycarbonate sheet solution
fulfilling a demand for areas where abrasion
and weathering resistance is key.

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