

CHEMISTRY THAT MATTERS™



# PROTECTIVE SOLUTIONS FOR SCHOOLS & UNIVERSITIES

LEXAN™ SHEET FOR SCREEN BARRIERS  
AND PRIVACY SEPARATION WALLS



As economies across the world open up and schools and universities might continue their classes after the summer holidays, we would like to share some product solutions that may help to better safeguard and protect the health of your students and teachers.

SABIC's Functional Forms business has been working to bring its portfolio of leading edge materials to bear in glazing applications for over 40 years. Virtually unbreakable, high optical quality solid and multiwall LEXAN™ (PC) sheet products with highly specialized properties are often a top choice for answering the specific needs and providing protection to your most demanding applications.











## SOLUTION AREAS

Protect the health of children, young-adults and teachers in their school environment when it comes to classrooms, lecture halls, libraries, cafeterias, food counters, sport facilities, recreation and waiting areas with protective and hygienic screen barriers and privacy separation walls.

# POTENTIAL BENEFITS



## HIGH IMPACT STRENGTH

The protective material will enhance safety, the sheets will not break during impact



## LIGHTWEIGHT

This feature makes it easy to move partitions in class rooms around



## EASY TO INSTALL

Ease of handling and installation can be cut on site with common tools



## FLAME RETARDANT\*

Our products meets Building Code stringent fire requirement



## COST EFFICIENT

Designed to provide added value performance through potentially low systems costs

\* Please check with your local SABIC representative for a list of LEXAN™ Polycarbonate sheet products, that meet the US & Canadian building code fire requirements for ASTM E84 and ULC S102.2 Class A and ASTM D635- CC1 classification.







### FIRE TEST PERFORMANCE

As a thermoplastic, LEXAN™ sheet will melt under the intense heat of a fire. However, in terms of its own flammability, it will make almost no contribution to the growth of a fire through flame spread.

LEXAN™ THERMOCLEAR™ and VEROLITE™ sheets have excellent fire behavior characteristics, with a CC1 and Class A rating according to ASTM D635, E84 and ULC S102.2 testing respectively. More detailed information is available from your local SABIC Service Center or Authorized Distributor.

### SOUND INSULATION

The sound insulation characteristics of a material are largely pre-determined by its stiffness, mass and physical construction. According to EN ISO 10140-2:2010, the maximum obtainable sound is 18dB at a gauge of 16mm.

### CHEMICAL RESISTANCE



LEXAN™ solid and multiwall sheet products have a high resistance to most moderate chemicals. For a complete list of compatible cleaners, please contact your SABIC representative.

### CLEANING

Gently wash the sheet with a solution of mild soap and lukewarm or cleaning agent, IPA solution at 70%, using a soft grid free cloth or sponge to loosen any dirt or grime.



# PRODUCT OFFERING

	Grade	Description	Solution for
SOLID SHEET			
	LEXAN™ XL102UV Sheet	High impact strength. Excellent Light Transmission. Easy to install, thermoformable and both sides UV protected. UL HB and F1 Rating.	Separations in Class Rooms, Lecture Halls, Cafeterias, Libraries, Food Counters and Recreation Area's.
	LEXAN™ 9034 Sheet	Cost efficient polycarbonate sheet, combines high impact and temperature resistance with optical clarity. UV stabilized. UL HB and F1 Rating.	
	LEXAN™ SGC308 Sheet	Textured polycarbonate sheet. Excellent light diffusion without transparency, high impact strength, ease of handling and installation. Both sides UV protected.	Separation Walls, Screen Barriers
MULTIWALL SHEET			
	LEXAN™ THERMOCLEAR™ Sheet	Lightweight and design flexibility vs. glass. Ease of installation. Excellent light transmission. Super UV resistance and impact Strength. Exceptional flame resistance. CC1 and Class A at all gauges.	Separations in Class Rooms, Lecture Halls, Cafeterias, Libraries, Food Counters and Recreation Area's.
	LEXAN™ VEROLITE™ Sheet		





# BUILDING CODE REQUIREMENTS

In general, interior finish applications in the US need to meet **International Building Code section 803.1**, which requires an **ASTM E84 Class C or higher rating** depending on the specific application.

GRADE	DESCRIPTION	UV/WARRANTY	FR RATING	CODE COMPLIANCE
9034	General Purpose LEXAN™ Polycarbonate for interiors	Stabilized, 5 year breakage warranty for indoors	E84 Class A, D635 CC2	≤0.060"
9604	FR LEXAN™ Polycarbonate interiors applications	No UV	E84 Class A, D635 CC1	≤0.125
MR10	MARGARD™ Polycarbonate for glazing applications	2UV, 10 year warranty	E84 Class A, D635 CC2	≤0.060"
MRXFR	FR MARGARD™ Polycarbonate for glazing applications	2UV, 5 year warranty	E84 Class A, D635 CC1	≤0.475
EXELDFR	UV protected FR LEXAN™ Polycarbonate	2UV, 10 year warranty	E84 Class A, D635 CC1	≤0.315"
C6206	LEXAN™ CLINIWALL™ for wall cladding of interior applications	No UV, 10 year warranty indoors	E84 Class A, D635 CC2	0.060"
THERMOCLEAR™ VEROLITE™	LEXAN™ Multiwall Polycarbonate sheet, for overhead, wall or partition applications	1UV and 2UV (10 or 15 year warranty). Available also without UV protection*	E84 Class A, D635 CC1	0.15-1.26"
THERMOCLICK™	LEXAN™ Multiwall Polycarbonate tongue and groove panels, for interior or exterior cladding walls applications	1 UV, 10 year warranty	E84 Class A, D635 CC1	1.57"
COGC08	LEXAN™ Corrugated sheet	1UV/1 Dripgard, 10 year warranty	E84 Class A, D635 CC1	0.033"

\* No outdoor warranty

Local building inspectors may allow temporary partitions, etc. to be installed that do not meet the 803.1 requirement, based on the application, installation of sprinkler systems, etc., but it is strictly up to the individual inspector in the local jurisdiction.

SABIC MAKES NO WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OF ITS PRODUCTS IN ANY CUSTOMER'S APPLICATION. Each customer should determine the suitability of SABIC materials for the customer's particular use through appropriate testing and analysis.

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