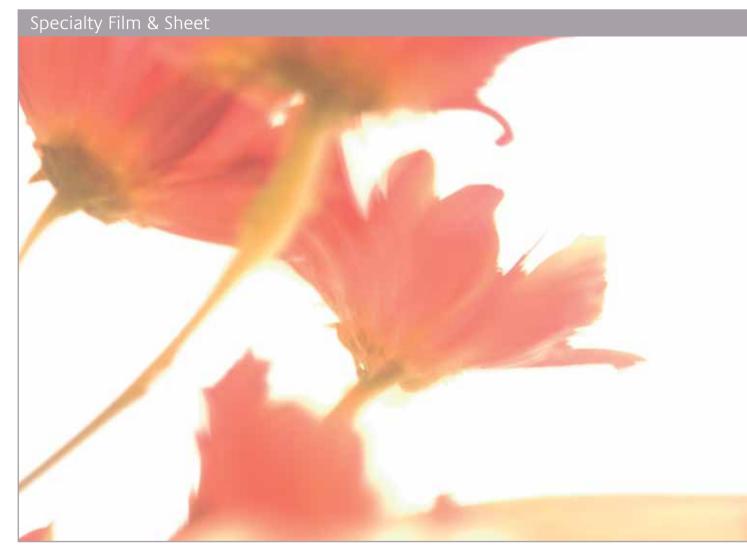
SABIC Innovative Plastics™





Bright

New Lexan^{*} SG305-OB sheet Uniform illumination with superior optical brightness

Sharing our futures

SABIC Innovative Plastics' new Lexan* SG305-OB sheet combines uniform illumination with superior optical brightness for eye-catching signage

SABIC Innovative Plastics' new grade of Lexan polycarbonate (PC) sheet is designed to boost the visibility and attractiveness of illuminated signage and displays. Lexan SG305-OB sheet, unlike conventional sheet products, offers both uniform light diffusion to eliminate light emitting diode (LED) "pinholes" and a view of light sources, and superior light transmission for exceptional optical brightness at lower energy costs.

In fact, the 2mm and 5mm thicknesses of Lexan SG305-OB sheet boost light transmission to more than 50% versus competitive materials like polymethyl acrylate (PMMA) that allow only about 25%. The new opal white sheet grade, which has a matte finish on its outward-facing surface to reduce reflections, also provides excellent UV protection as well as the renowned impact resistance of tough, virtually unbreakable Lexan resin.

Typical benefits

- A higher light transmission, combined with higher light diffusion
- for uniform illumination (light source not seen from outside)
- to prevent bright spots, allowing fewer LED lights and lower total product cost.
- Impact resistance
- Easy fabrication
- Both surfaces UV-resistant
- Outstanding white color retention after weathering
- Decoration
- Printability
- Wide range of sizes. Also available on spools.
- 10- year limited written warranty against loss of impact strength; yellowing (< 12%) and loss of light transmission (< 6%)

Applications

- Back lighted signs
- Channel letters
- Formed wholesale faces
- Flat signs
- Formed production signs
- Menu boards
- Digital advertisement screens
- Projection screens
- Roller shutters
- Interior cladding
- Counters
- Displays





Outstanding white color retention from weathering and vandalism deterrent for sign applications.

Until now, sign manufacturers have been forced to choose between optimal diffusion and optimal brightness. Now, with SABIC Innovative Plastics' new Lexan* SG305-OB sheet, they get both – plus great performance and fabrication ease. This new material opens up many new design opportunities for illuminated signage. For example, the SeaCloud Hotel in Busan, South Korea is using Lexan SG305-OB sheet for its main exterior sign and others are following suit.

The SeaCloud hotel sign utilizes a color changing system which occurs when Lexan SG305-OB sheet is installed with a gray-colored film. As a result, the material shows as gray during the day and as white at night when displayed with LED lamps. This gray color film has many small holes which allow lamp light to pass through when it is dark. Although conventional materials such as PMMA typically lose significant brightness in the process of achieving acceptable diffusion, Lexan SG305-OB sheet retains a high level of optical brightness while presenting a uniform appearance that masks both light bulbs and LEDs.

The result is a consistently, bright appearance that enhances graphics, which can be screen-printed on the back surface, projected from the rear. The back surface of the sheet is polished for better printing, while the front surface's matte texture reduces glare and reflection. Another major benefit is the enhanced brightness of the Lexan sheet that enables designers to reduce lighting requirements for energy savings.

Unlike acrylics, which are often brittle, Lexan SG305-OB sheet offers exceptional impact-resistant to deter vandalism and other damage.

Euroll ADDscreen* roller turns security shutters into advertising billboards

Advertising is constantly finding its way onto new surfaces. Trains and buses are "wrapped" in graphics, and images are projected onto subway tunnels as passengers move past. Euroll saw a similar possibility in the roller shutters it produced to protect stores, ticket windows and other businesses after hours. By replacing steel with the right material, blank roller shutters could be transformed into billboards for a variety of promotional information.

Instead of metal or clear PC panels, ADDscreen* shutters come with specially developed sheet projection panels. With these panels, projection from the inside out is possible. In a lot of situations, it is even possible to keep the existing roller track construction. By only changing the shutter screen to an ADDscreen*, the costs can be kept low. ADDscreen* is a unique and innovative product that turns unattractive shutters into aesthetically pleasing marketing tools for customers – without losing the basic security features.

In this new shutter system, the shop owner is able to connect the projection equipment to a PC and advertise by projecting text, images, or video on the ADDscreen*. Euroll ADDscreen* shutters with SABIC Innovative Plastics' Lexan SB305-0B sheet are generally specified for retail shop windows, exhibition areas and arcades. In such locations the shutters provide the dual benefits of out of hours security plus 24-hour customer access to the shop window advertisement. Also, these shutters can be used in town centers, where the addition of illuminated advertising makes streets brighter and, in turn, safer after dark.



MyCom shop ADDscreen* rollers in daylight.



MyCom shop ADDscreen* rollers by night.





SABIC Innovative Plastics 3

Americas

Headquarters SABIC Innovative Plastics Specialty Film & Sheet One Plastics Avenue Pittsfield, MA 01201 USA T 413 448 7110 F 413 448 5573

European Headquarters

SABIC Innovative Plastics Specialty Film & Sheet Plasticslaan 1 PO Box 117 4600 AC Bergen op Zoom The Netherlands T +31 164 292911 F +31 164 292940

Pacific Headquarters

SABIC Innovative Plastics Specialty Film & Sheet 1468 Nanjing Road (W) 26th Floor, United Plaza 200040 Shanghai China T +86 21 3222 4500 F +86 21 6289 8998

Email

productinquiries@sabic-ip.com

Lexan* SG305-OB sheet performance versus to traditional opal white sheet

Performance capability		Lexan SG305-OB	sheet
High impact strength			•
Formability			•
Added UV resistance		•	
Available in colors		White only	
Available on spools		•	
Matte finish on one side			•
Improved light diffusion			•
10 years limited written warranty		•	
Typical values		LT %	Diffusion Factor
	2mm	52	0.82
	3mm	44	0.85
	4mm	37	0.82
	6mm	27	0.83

Availability

Lexan SG305-OB sheet is available in form of sheets as well as on economical spools, making it easy to cut into desired sizes.

Sheet gauge	2, 3, 4, 5, 6 mm
Size	2050 x 3050 mm
Standard optical bright white colors	WH7C154X

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