

LEXAN® Sheet for Signs



Sheet for Signs



Make a strong and lasting impression.



Whether you're one of the nation's fast-food leaders, a newly established bank or the favorite car wash in your home town, your sign is an important reflection of your company image.

Each year more and more businesses rely on LEXAN sheet for sign products to make a strong lasting impression. LEXAN sheet, from GE Structured Products, is the toughest and most versatile polycarbonate sign material available. Ten times stronger than the toughest acrylic and backed by the most comprehensive warranty protection in the industry. LEXAN sheet is the premier choice for backlit pole signs, groundmounts, canopies, and fascias.

Products are available to meet your demands for UV and weather resistance and for glare reduction. A wide selection of sizes, colors, finishes and weights is available to meet even the most creative designs.

So don't compromise. Insist on LEXAN sheet products to project – and – protect the quality image you've worked so hard to build.

Strength that won't quit.

Signs lead a harsh life, suffering the abuse of wind, weather, traffic, and vandalism. With 30 times the impact strength of acrylic, and 10 times that of "impact-modified" acrylic, LEXAN sheet stands up to everyday punishment. Unlike acrylics, which can embrittle at below-freezing temperatures, LEXAN sheet offers dependable impact-resistance performance year after year. High in the air or low to the ground, in a quiet neighborhood or in the inner city, LEXAN sheet endures the toughest of conditions.

A world of design freedom.

Choose from clear LEXAN sheet for optimum second-surface graphics, or select from a wide range of colors and tints. A wide selection of textures can also help you get just the right look. The design versatility inherent in LEXAN sheet elevates a signmaker's art to new levels of creativity.

LEXAN sheet for sign products can be easily thermoformed to achieve crisp detail or cold-formed to the minimum radius of 100x thickness. Wide widths and continuous long lengths can achieve one-piece faces without seams.

Unmatched UV resistance.

Proprietary UV-resistant surface technology – available in a broad family of LEXAN Solar Grade products – helps your sign stand up to prolonged exposure to harsh sunlight without visible yellowing. With LEXAN SGC sign products, outdoor signs not only last long, they offer long-lasting good looks.

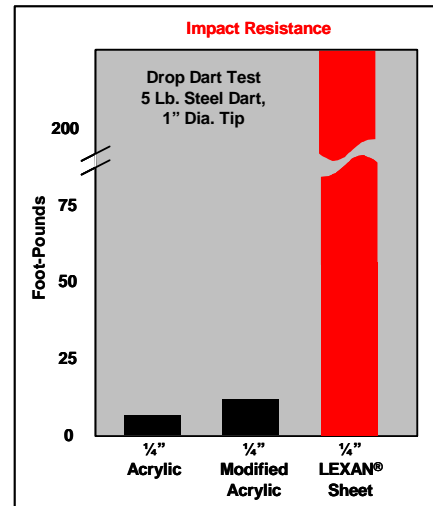


Long-term cost savings.

LEXAN® sheet for sign products can provide significant cost savings over the life of your sign. Superior impact resistance results in reduced breakage during fabrication, shipping, installation, and in service, which contributes to overall lower maintenance and replacement costs. Also due to these high impact properties, LEXAN sheet can often be down-gauged vs. other plastics without compromising its performance properties. With LEXAN sheet sign products, a small investment on the front end can pay back handsomely over the life of your sign program.

Complete portfolio of sign grades.

To meet your most demanding sign applications, all grades of LEXAN sheet share certain high-performance properties. In addition, they each offer specific value-added performance features to meet your particular sign requirements.

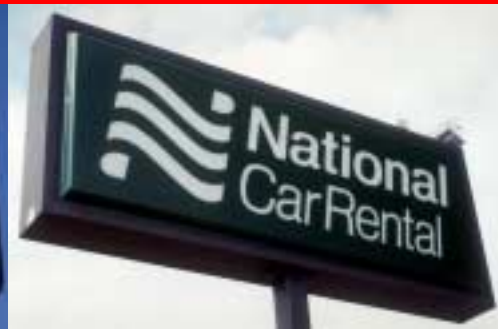


Performance Capability	LEXAN S100 Sheet	LEXAN S300 Sheet	LEXAN SGC100 Sheet	LEXAN SG300 Sheet	LEXAN SG400 Sheet	LEXAN MR10 Sheet
High Impact Resistance	●	●	●	●	●	●
Formability	●	●	●	●	●	
Added UV Resistance			●	●	●	●
Available in Colors	●	●		●	●	●
Available in Spools	●	●	●	●	●	
Matte Finish on One Side		●		●		
Warranted Against Breakage*	●	●	●	●	●	●
Warranted Against Weathering*			●	●	●	●

* See Limited Warranties for Details



The industry standard.



Clear S-100 (polished surface on both sides) and S-300 (polished on one side, matte on the other) sheets are ideal for most sign applications and have become the industry standard.

Features:

- Virtually unbreakable
- 5-year limited warranty against breakage
- Readily accepts most forming and decoration methods
- Second-surface graphics are protected against fading and wear
- Glossy finish (S-100)
- Reduced surface reflection and glare (S-300)
- Transparent, translucent, and opaque custom colors available

Applications:

- Flat or formed sign faces
- Backlighting or opaque pole signs, groundmounts, canopies, building fascias
- Electronic message sign covers
- Indoor or outdoor signs

Limitations:

- Follow manufacturer's recommended cleaning procedures
- Not recommended for applications requiring high abrasion resistance
- Not recommended for outdoor signs that are predominantly white or where color shift is objectionable

Specifications:

LEXAN S-100-112 sheet – extruded polycarbonate sheet, clear, polished on both surfaces.

- Notched Izod impact strength of 12 to 16 ft.-lbs. per inch, ASTM D-256
- Elongation % of >100, ASTM D-638
- Modulus of elasticity (psi) of 345,000, ASTM D-638
- Heat deflection temperature of 270°F @ 264 psi, ASTM D-648

LEXAN S-300-112 sheet – extruded polycarbonate sheet, clear, matte first surface, polished second surface.

- Notched Izod impact strength of 12 to 16-ft.-lbs. per inch, ASTM D-256
- Elongation % of >100, ASTM D-638
- Modulus of elasticity (psi) of 345,000, ASTM D-638
- Heat deflection temperature of 270°F @ 264 psi, ASTM D-648



For superior UV resistance.

Clear SGC-100 (polished surface on both sides) and SG-300 (polished on one side, matte on the other) sheets have a proprietary UV-resistant surface treatment on one side to protect against the yellowing effects of sunlight exposure. These products are ideal for outdoor signs that are predominately white or where color shift is objectionable.

Features:

- Virtually unbreakable
- Stands up to prolonged sunlight exposure without noticeable yellowing or dulling
- 10-year limited warranty against breakage, yellowing and loss of light transmission (SGC-100 only)
- Readily accepts most forming and decoration methods
- Second-surface graphics are protected against fading and wear
- Glossy finish (SGC-100)
- Reduced surface reflection and glare (SG-300)
- SG-300 is also available in transparent, translucent and opaque custom color, in addition to standard clear

Applications:

- Second-surface decorated outdoor signs
- White or light-color signs
- Signs where color shift is objectionable
- Flat or formed sign faces
- Backlighting or opaque pole signs, groundmounts, canopies, building fascias
- Electronic message sign covers

Limitations:

- Follow manufacturer's recommended fabrication and cleaning procedures
- Solar Grade treated surface must face outward
- Not recommended for applications requiring high abrasion resistance

Specifications:

LEXAN SGC-100-112 sheet

- Notched Izod impact strength of 12 to 16 ft.-lbs. per inch, ASTM D-256
- Elongation % of >100, ASTM D-638
- Modulus of elasticity (psi) of 345,000, ASTM D-638
- Heat deflection temperature of 270°F @ 264 psi, ASTM D-648

LEXAN SG-300-112 sheet

- Notched Izod impact strength of 12 to 16-ft.-lbs. per inch, ASTM D-256
- Elongation % of >100, ASTM D-638
- Modulus of elasticity (psi) of 345,000, ASTM D-638
- Heat deflection temperature of 270°F @ 264 psi, ASTM D-648

LEXAN® SG-404 Sheet



UV resistance in color.

Extruded polycarbonate pigmented sheet, SG-404 provides outstanding weatherability. A proprietary UV-resistant surface treatment on one side protects standard and custom colors against color shift. Both sides are glossy.

Features:

- Virtually unbreakable
- Stands up to prolonged outdoor sunlight exposure without noticeable yellowing or color shift
- UL-recognized as an electrical enclosure material in channel letter diffuser applications
- 5-year warranty against breakage and surface failure
- Readily accepts most forming and decoration methods
- Glossy finish
- Available in both custom and nine standard colors

Applications:

- First-surface decorated outdoor signs
- Signs where color shift is objectionable
- Flat or formed signs

- Backlighting or opaque pole signs, groundmounts, price signs, canopies, building fascias, channel letters

Limitations:

- Follow manufacturer's recommended fabrication and cleaning procedures
- Solar Grade treated surface must face outward
- Not recommended for applications requiring high abrasion resistance

Specifications:

LEXAN SG-404-XXX sheet

- Notched Izod impact strength of 12 to 16 ft.-lbs. per inch, ASTM D-256
- Elongation % of >100, ASTM D-638
- Modulus of elasticity (psi) of 345,000, ASTM D-638
- Heat deflection temperature of 270°F @ 264 psi, ASTM D-648



LEXAN® MR10 Sheet



Superior UV/abrasion Resistance.

Clear LEXAN MR10 sheet combines the impact strength of LEXAN with an improved MARGARD II surface coating on both sides to offer the most UV/abrasion-resistant material available today. This combination of properties helps ensure "like new" appearance for many years to come.

Features:

- Virtually unbreakable
- Stands up to everyday cleaning and wear without marring or hazing
- Extended outdoor service life, resists yellowing
- Defies most graffiti to stick, enables restoration to a like-new condition
- 10-year warranty against breakage, weathering and coating failure
- Glossy surface finish on both sides
- Clear gray, bronze, and custom transparent colors available

Applications:

- Flat, non-decorated applications where abrasion resistance is required
- Menu board covers, directory fronts, display panels

Limitations:

- For flat, transparent applications only
- Because of its highly mar-resistant surfaces, paint, adhesives, and other materials commonly used in the sign industry will not adhere. NOTE: One-side hard-coated MR10 for second-surface decorated applications is available
- Follow manufacturer's recommended cleaning procedures

Specifications:

LEXAN MR10-112 sheet

- Notched Izod impact strength of 12 to 16 ft.-lbs. per inch, ASTM D-256
- Elongation % of >100, ASTM D-638
- Modulus of elasticity (psi) of 345,000, ASTM D-638
- Taber abrasion resistance of 4-10% max. haze increase for 500 revolutions of 500 g Taber abrader (CS-10F wheel), ASTM D-1044
- Heat deflection temperature of 270°F @ 264 psi, ASTM D-648



For durable, cost-effective ADA-compliant signage

Clear, velvet-texture LEXAN graphic film, widely used in the architectural sign industry, can be screen printed and embossed for Americans with Disabilities Act (ADA)-compliant signage incorporating Grade 2 Braille and tactile lettering.

Features:

Signage made with LEXAN film is durable, cost-effective and offers a number of performance advantages over other sign systems also designed to meet ADA requirements:

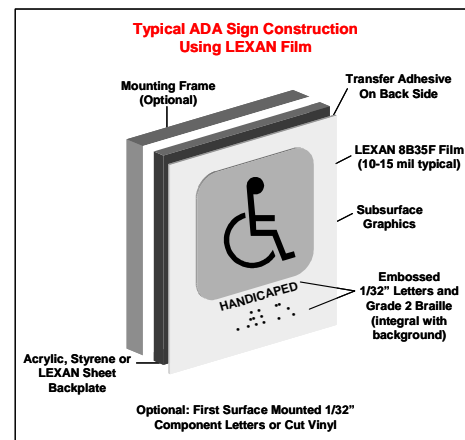
- The velvet texture of LEXAN 8B35F film meets ADA recommendations for surface finish and low gloss
- Graphics are subsurface, behind the clear LEXAN film, protecting them from wear
- Custom-color graphics and logos are readily achievable via screen printing
- LEXAN film accepts precision embossing. Braille and tactile lettering are integral with the background; they cannot fall off or be easily removed
- Cost-effective system options are available for either long-run stock or short-run custom signage

Fabrication:

- Decoration can be achieved by second-surface screen printing with extensible inks that are compatible with LEXAN film. The film may also be used in combination with decorative vinyl films in areas not to be embossed
- Tactile letters and Grade 2 Braille can be embossed 1/32" via hydroforming or platen-press embossing. Grade 2 Braille can also be produced with Braille embossing equipment designed to accept polycarbonate film
- Predecorated and embossed LEXAN film can be laminated to acrylic, styrene or thin-gauge LEXAN sheet with transfer adhesive. While die-cutting can be used to produce a clean, finished edge after lamination, a concealing frame may also be desirable.

Limitations:

- Not recommended for applications requiring high abrasion resistance
- For outdoor use, use a compatible UV protective coating to retard yellowing
- Follow manufacturer's recommended fabrication and cleaning procedures



Total Technical Support

High-performance LEXAN® polycarbonate sheet products are today's most versatile, practical and cost-effective sign materials – with a proven record of durability and value.

To optimize your use of high-performance LEXAN sheet for sign products, GE Structured Products offers a range of technical assistance throughout every phase of your project, including:

- Thermoforming, embossing, fabrication, and bonding recommendations
- Structural design assistance
- Analytical studies
- Part and mold feasibility, print reviews, prototyping, and processing assistance
- Weathering data
- Paint compatibility and decorating information
- Product recommendations and testing
- Agency and code assistance

Materials technology and partnership support resources from GE Structured Products are your assurance of long-term performance, reliability, and cost-efficiency.

For further information, please call:

(800) 451-3147 or (413) 448-5400

For Customer Service assistance, please call: (800) 323-3783

Web Site: www.gestructuredproducts.com

E-Mail:

Structuredproducts.internet@gepex.ge.com

GE Structured Products

AMERICAS

United States
GE Plastics
One Plastics Avenue
Pittsfield, MA 01201
413-448-5400

Argentina

GE Plastics South America
Av. L.N. Alem 6199 Piso
1001 Buenos Aires, Argentina
54-1-317-8753
54-1-317-9770 (Fax)

Brazil

GE Plastics South America
Ar. Das Nacoes Unidas, 12995-20 Andar
Edificio Plaza Centenario, 04578-000
Sao Paulo, Brazil
55-11-550-05-2800

Canada

GE Plastics – Canada
2300 Meadowvale Boulevard
Mississauga, Ontario
Canada L5N 5P9
905-858-5774

DISCLAIMER: THE MATERIALS AND PRODUCTS OF THE BUSINESSES MAKING UP THE GE PLASTICS UNIT OF GENERAL ELECTRIC COMPANY, ITS SUBSIDIARIES AND AFFILIATES, ("GEP") ARE SOLD SUBJECT TO GEP'S STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT, PRINTED ON THE BACK OF ORDER ACKNOWLEDGMENTS AND INVOICES, AND AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, GEP MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING GEP MATERIALS, PRODUCTS, RECOMMENDATIONS OR ADVICE. EXCEPT AS PROVIDED IN GEP'S STANDARD CONDITIONS OF SALE, GEP AND ITS REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS OR PRODUCTS DESCRIBED HEREIN. Each user bears full responsibility for making its own determination as to the suitability of GEP's materials, products, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating GEP materials or products will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of GEP's Standard Conditions of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by GEP. No statement contained herein concerning a possible or suggested use of any material, product or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of General Electric Company or any of its subsidiaries or affiliates covering such use or design, or as a recommendation for the use of such material, product or design in the infringement of any patent or other intellectual property right.



® Registered Trademark of General Electric Company

SPL-6002F (8/02) GE

General Electric Company
One Plastics Avenue
Pittsfield, MA 01201
413-448-5400

GE Structured Products