



Lexan® Margard®

Polycarbonate Sheet for Security Roller Shutters



ROLLER SHUTTERS



Transparent Lexan® Margard® sheet offers a unique combination of properties for many roller shutters which can combine high security with light weight and excellent visibility.

High impact resistance

Lexan Margard sheet offers outstanding impact resistance for extremely high levels of safety and security.

This impact resistance does not vary significantly at temperatures between -40°C and +120°C.

Strong, yet light

The high strength of Lexan Margard sheet allows relatively thin gauges to be used, in slim, standard profiles. Its low weight further increases this advantage, often allowing the design of lighter, easier-to-use roller shutters.

High resistance to chemicals

Lexan Margard sheet is practically immune to contact with many chemicals such as cleaning fluids and paints. This means graffiti can be

removed, enabling easy restoration to a virtually 'good as new' condition.

High resistance to abrasion

Lexan Margard sheet is hard coated to help protect against unsightly scratching which reduces visibility. This makes it well-suited for use in many roller shutters – where frequent contact and cleaning are likely.

Comprehensive warranty

Lexan Margard sheet is UV protected to resist 'yellowing' – with a five years limited warranty against loss of light transmission and ten years against breakage.*

GE Structured Products pedigree

Lexan Margard sheet is part of a leading range of security glazing materials, used by companies throughout the world. In thicker gauges and laminates, it provides a high level of protection for bullet and blast-resistant glazing.



*See warranty for details.

Lexan



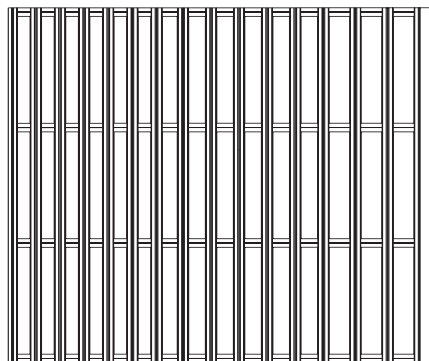
Typical Properties

Property	Test method	Unit	Value
Physical			
Specific Gravity	DIN 53479	–	1.20
Water Absorption,			
24 hours, mg	DIN 53495	mg	10.0
Optical			
Light Transmission	ASTM D 1003	%	84-90
Imperfections*	DIN 52305/AS		Pass
Mechanical			
Tensile Strength, yield	DIN 53455	N/mm ²	60
Tensile Strength, break	DIN 53455	N/mm ²	70
Tensile Elongation, yield	DIN 53455	%	7
Tensile Elongation, break	DIN 53455	%	120
Tensile Modulus	DIN 53457	N/mm ²	2300
Flexural Strength, max	DIN 53452	N/mm ²	100
Flexural Modulus	DIN 53457	N/mm ²	2500
Hardness	DIN 53456	N/mm ²	95
Taber Abrasion, CS-10F,	ASTM D 1044	% Haze	<12
500 cycles, 500g			
Thermal			
Vicat Softening Temp, Rate B	ASTM D 1525	°C	153
HDT, 0.45 Mpa	ASTM D 648	°C	138
Thermal Conductivity	ASTM C 177	W/m°C	0.20
Coeff of Linear Therm Expansion	ASTM D 696	m/m°C	6.7x10 ⁻⁵
Thermal Index	UL 746B	°C	100
Flame Characteristics			
94V-2 Flame Class Rating**	UL 94	mm	1.47
94V-0 Flame Class Rating**	UL 94	mm	6.10
Oxygen Index	ASTM D 2863	%	25

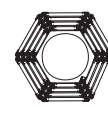
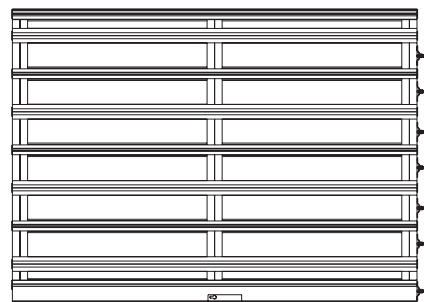
* Passing DIN 52305/AS requirements for 3-8 mm gauge.

** These ratings are not intended to reflect the hazards presented by this or any other material under actual fire conditions.

Sideways moving Rollershutter



Upwards moving Rollershutter



All information, recommendation or advice contained in this document or given by General Electric Company*, USA, or any of its subsidiaries, affiliates or authorised representatives, whether written or oral, is given in good faith, to the best of its knowledge and based on current procedures in effect. The products of General Electric Company or, if applicable, of its subsidiaries or affiliates are sold subject to Conditions of Sale, printed on the back of order acknowledgements, invoice or available upon request. Nothing in this or any other document shall alter, vary, supersede or operate to waive any of the Conditions of Sale. Each user of the products shall convince himself, through all available sources (including finished product testing in its appropriate environment) of the suitability of the products supplied for its own particular purpose. Because actual use of the products by the user is beyond the control of General Electric Company, its subsidiaries and affiliates, such use is within the exclusive responsibility of the user. General Electric Company, its subsidiaries and affiliates cannot be held responsible for any loss incurred through incorrect or faulty use of the products. Information, recommendation and/or advice are neither made to infringe on any patents, nor to grant a license under any patent or intellectual property right of General Electric Company or any of its subsidiaries or affiliated companies, nor to grant the right to file for any patent protection.

*Company not connected with the English company of a similar name. ® Registered trademark of General Electric Company, U.S.A.

GE Plastics Ltd
Old Hall Road
Sale
Cheshire M33 2HG
United Kingdom
Tel. (44) (161) 905 50 01
Fax (44) (161) 905 50 04



GE Structured Products

Newtech Door Systems Ltd.
Broadwyn Trading Estate
Waterfall Lane, Cradley Heath
Warley, West Midlands B64 6PS
Tel. (44) 121 561 4154
Fax (44) 121 561 4154

