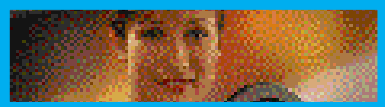




Lexan® Margard®

Polycarbonate Sheet
for safety and security glazing



Lexan



Trust Lexan® Margard® sheet for high performance, attractive appearance

Lexan Margard sheet offers excellent optical clarity with a unique combination of properties, which make it the ideal choice for safety and security glazing to suit a wide range of applications.

Available clear or bronze tinted, in standard and formable grades, it can be specified for both flat and curved glazing.

● Extremely high impact resistance

Like all Lexan sheet products, Lexan Margard sheet offers extremely high impact resistance, minimising the risk of breakage - even when subjected to violent blows by heavy objects.

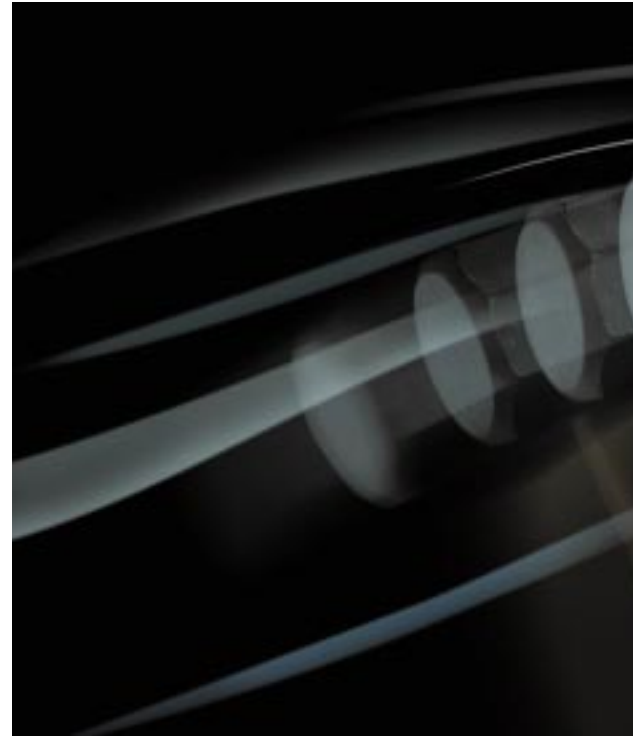
This impact resistance does not vary significantly over a wide temperature range (-40°C to +120°C) or after prolonged outdoor exposure.

● High resistance to abrasion

Lexan Margard sheet has a unique, hard surface coating which provides a high level of protection against unsightly scratching, so it's ideal for use in applications where frequent contact is likely.

● High resistance to the effects of weathering

The surface coating of Lexan Margard sheet enhances protection against



performance losses and yellowing caused by exposure to UV radiation in sunlight.

● High resistance to chemicals

Lexan Margard sheet is immune to contact with many chemicals such as cleaning fluids, paints and adhesives. Its unique surface coating also resists graffiti, enabling easy restoration to a 'good as new' condition.



The wire wool test shows the superior performance of Lexan Margard sheet over conventional, uncoated sheet.



The surface coating of Lexan Margard sheet resists graffiti and allows easy restoration.



Lexan Margard sheet outperforms most other thermoplastic glazing materials in fire tests.

e and excellent all-round durability.



● **Superior fire performance**

Unlike many thermoplastic materials used for glazing, Lexan Margard sheet receives high ratings in the major European standard fire performance tests.

● **Safe and easy to handle and install**

Lexan Margard sheet is very light and can be cut to size on-site using conventional workshop tools, allowing reduced lead times for re-glazing.

● **Comprehensive warranty**

Lexan Margard sheet is backed by a five years limited warranty against loss of light transmission and coating failure - and by a ten years warranty against breakage. See warranty for exact details.



Lexan



Trust Lexan[®] Margard[®] sheet for safety and security glazing.

A cost effective solution to glazing in areas prone to vandalism: re-glaze just once with Lexan Margard sheet.

● Anti-vandal glazing

Glazing with Lexan Margard sheet is the ideal solution in areas where there may be a risk of vandalism. It minimises the risk of costly re-glazing and allows frequent cleaning or removal of graffiti without causing damage.

Lexgard range of ballistic laminates is available. For further information, please contact GE Structured Products.

● Premises safety glazing

Lexan Margard sheet will not shatter or splinter, so greatly reduces the risk of accidental injury in applications like internal partitions and doors.

● Safety screens and acoustic screens

Lexan Margard sheet is the ideal material for safety screening in sports stadia and other outdoor applications like acoustic screens for deflection of traffic noise in built-up areas.



No shattering or splintering: Lexan Margard sheet is the safe option.

● Security glazing

Lexan Margard sheet will prevent a burglar from forcing an entry. It will delay him to a point where he simply gives up the attempt, or is detected. Either way, the premises and property are protected and re-glazing costs are eliminated.

For high security applications where there may be a risk of armed assault, the





Lexa

Trust Lexan® Margard® sheet



...for machine tool safety guarding...

Glazed safety guarding using Lexan Margard sheet not only protects machine operators against injury. It allows the clearest possible view of the workpiece, even after prolonged regular contact with oil, coolants and other materials - including cleaning fluids.

Lexan Margard sheet meets or exceeds established and preliminary European safety standards - and its impact strength is unaffected by high temperatures.

...and for vehicle safety glazing.

The unique combination of light weight, impact strength and resistance to abrasion and weathering, makes Lexan Margard sheet an excellent material for vehicle glazing. It has been proven in use on a wide variety of vehicles from fork lift trucks to forestry tractors. In fact, wherever high visibility and driver protection are priorities, Lexan Margard sheet provides the effective solution.



The Lexan® Margard® sheet range

Four different grades of Lexan Margard sheet are available:

Lexan Margard MR5E sheet for flat glazing applications - coated both sides.

Lexan Margard FMR5E formable sheet for curved glazing applications - coated both sides.

Lexan Margard HLG5 sheet for use as a glazing laminate in flat applications - coated one side only.

Lexan Margard FLG5 formable sheet for use as a glazing laminate in curved applications - coated one side only.

Availability

Grade	Standard size (mm)	Thickness (mm)	Standard colour
MR5E	2000 x 3000	3, 4, 5, 6, 8, 9.5 and 12	112 (clear), 5109 (bronze)
FMR5E	2000 x 3000	3, 4, 5, 6, 8, 9.5 and 12	112 (clear), 5109 (bronze)
HLG5	2000 x 2920	3, 4, 5, 6, 8, (9.5 and 12 optional)	112 (clear)
FLG5	2000 x 2920	3, 4, 5, 6, 8, (9.5 and 12 optional)	112 (clear)

Other options after consultation

Anti-Bandit performance

Lexan Margard MR5E Gauge/mm	European standard EN 356 Level of resistance	German standard DIN 52290 Part 4 Level of resistance
4	P1A	
4	P2A	A-1
4	P3A	A-2
4	P4A	A-3
5	P5A	

Machine guards (CEN/TC143/WG3 draft)

Chuck diameter (mm)		Peripheral chuck speed (m/s)	Grade	Gauge Result (mm)	
from	up to				
	130	25	Lexan® Margard® MR5E	6	pass
		40	Lexan® Margard® MR5E	8	pass
		63	Lexan® Margard® MR5E	9.5	pass
130	250	40	Lexan® Margard® MR5E	8	pass
		50	Lexan® Margard® MR5E	12	pass
		63	Lexgard® MPC500	13	pass
250		40	Lexan® Margard® MR5E	8	pass
		50	Lexan® Margard® MR5E	12	pass
		83	Lexgard® RC750	20	pass



Advanced solutions from a trusted world leader

GE Structured Products is the sheet and film division of GE Plastics, with European headquarters in the Netherlands and additional manufacturing operations in Italy and Austria, as well as sales and marketing facilities throughout Europe.

GE Plastics is part of the General Electric Corporation - a global engineering company, manufacturing products as diverse as jet engines, medical equipment and consumer white goods.

As the leading supplier of high performance engineering plastics to

markets in Europe, the United States and Asia Pacific regions, we operate a worldwide network of research, manufacturing and technical service facilities.

Quality is our culture

GE Structured Products operates a comprehensive Total Quality Management system within the procedures of ISO 9000, for which we carry full certification.

Our commitment to quality is evident in all aspects of our organisation, from manufacturing to sales and marketing, with strong emphasis on personal accountability.

European Headquarters General Electric Plastics B.V.

Plasticslaan 1
PO Box 117
NL - 4600 AC Bergen op Zoom
The Netherlands
Tel. (31) (164) 29 27 42
Fax (31) (164) 29 19 86

GE Plastics Ltd

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

General Electric Plastics Italia S.p.A.

Viale Brianza 181
I - 20092 Cinisello Balsamo (Mi)
Italy
Tel. (39) (2) 61 83 41
Fax (39) (2) 61 83 42 11

General Electric Plastics GmbH

Eisenstrasse 5
D - 65428 Rüsselsheim
Germany
Tel. (49) (61 42) 601 101
Fax (49) (61 42) 601 259

GET sl (Gestión y Especificaciones Técnicas)

Agente Oficial España y Portugal
C/Girona, 67, 3º-2a
08009 Barcelona, Spain
Tel. (34) (3) 488 03 18
Fax (34) (3) 487 32 36

General Electric Plastics Austria Ges.mb.H.

Pottendorferstrasse 47
A - 2700 Wiener Neustadt
Austria
Tel. (43) (2622) 390 0
Fax (43) (2622) 390 39

General Electric Plastics France S.à.R.L.

Z.I. de St. Guénault B.P. 67
F - 91002 Evry-Cedex
France
Tel. (33) (1) 60 79 69 00
Fax (33) (1) 60 77 56 53

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