



Product Data Sheet

Lexan® SL2030

Description

Lexan® SL2030 is a UV-stabilized, transparent, polycarbonate sheet. The grade is specifically developed for the eye protection industry. In addition to excellent optical performance, it offers outstanding impact resistance, good stiffness and strength, and ease of processing. Typical applications are:

- motor helmet visors
- industrial visors and goggles
- sport goggles
- police helmet visors
- sunglasses

Processing

Lexan® SL2030 sheet can be drape formed at a maximum of 155 °C, normally without pre-drying.

Chemical Resistance

Lexan® SL2030 has sufficient resistance to most mineral oils, greases, aliphatic hydrocarbons and acids under low or moderate stress levels. In applications where it will come into contact with these or other aggressive chemicals, specific (application related) testing of the material is strongly recommended.

Assembling

Parts made from Lexan® SL2030 can be assembled with plastics, metals, rubber and other materials using any types of adhesive bonding, welding and mechanical fastening techniques. Since some of these materials can cause environmental stress cracking, please consult GE Structured Products for advice on specific applications.

Configuration

Texture	Gauges (mm)	Color
polished/polished	0.75	several (transparent)
	1.00	
	1.50	
	2.00	
	3.00	
	4.00	

Lexan® SL2030

Typical Properties

Property	Test methods	Unit	Value*
Physical			
Density	ISO 1183	g/cm ³	1.20
Water absorption, 24 hours equilibrium	ISO 62	%	0.15
		%	0.35
Optical			
Light transmission	ASTM D1003	%	89.5
Mechanical			
Tensile stress, yield	ISO 527	MPa	60
Tensile modulus	ISO 527	MPa	2300
Elongation, yield	ISO 527	%	7
Elongation, break	ISO 527	%	110
Flexural strength, yield	ISO 178	Mpa	100
Flexural modulus	ISO 178	MPa	2500
Izod notched impact, 20 °C	ISO 180-1A	KJ/m ²	65
-30 °C		KJ/m ²	10
Gardner impact, 20 °C	GE method	J	>37
-20 °C		J	>37
Thermal			
VICAT softening temp., rate B/120	ISO 306	°C	145
Mold shrinkage	ISO 527	%	0.5-0.7
Thermal expansion	ASTM D696	1/°C	7x10 ⁻⁵
HDT, 0.45 Mpa	ISO 75/Be	°C	138

* Typical values only. Variations within normal tolerances are possible for the various textures.



GE Structured Products

General Electric Plastics bv
Plasticslaan 1, P.O. Box 117
4600 AC Bergen op Zoom
The Netherlands
Tel. +31-(0)164-292742 Fax: +31-(0)164-291986

Since General Electric Plastics B.V. tests are carried out under laboratory conditions and General Electric Plastics B.V. has no control over the use to which others may put this material, it does not guarantee that the same results as those described herein will be obtained under actual use conditions. Nor does General Electric Plastics B.V. guarantee the efficacy or safety of any possible or suggested design for articles of manufacture as illustrated herein by any photographs, technical drawings and the like. Each user of the material or design or both should make its own tests to determine the suitability of the material or any material for the design, as well as the suitability of the material or design or both for its actual use conditions. Statements concerning possible or suggested use of the materials or designs described herein are not to be construed as constituting a license under any General Electric Company or General Electric Plastics B.V. patent covering such use or as recommendations for use of such materials or designs in the infringement of any patent

AMERICAS

United States

GE Plastics
1 Plastics Avenue
Pittsfield, MA 01201
Tel. (1) (413) 448 5400

Brazil

GE Plastics South America
Av. Das Nacoes Unidas, 12995 - 20 Andar
Edificio Plaza Centenario
04578 - 000 Sao Paulo, Sp
Brazil
Tel. (55) 11 5505 2800
Fax (55) 11 5505 1757

Argentina

GE Plastics South America
Av. L.N. Alem 619 9 Piso
1001 Buenos Aires
Argentina
Tel. (54) 1 317 8753
Fax (54) 1 313 9560

EUROPE

European Headquarters

General Electric Plastics B.V. SPE
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

United Kingdom

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

Italy

General Electric Plastics Italia S.p.A.
Viale Brianza 181
I - 20092 Cinisello Balsamo (Mi)
Italy
Tel. (39) 02 61 83 42 61
Fax (39) 02 61 83 42 09

Germany

General Electric Plastics GmbH
Eisenstraße 5
D - 65428 Rüsselsheim
Germany
Tel. (49) (61 42) 601 101
Fax (49) (61 42) 601 259

Spain

GET sl (Gestión y Especificaciones Técnicas)
Agente Oficial España y Portugal
C/Girona, 67, 3^a-2a
08009 Barcelona
Spain
Tel. (34) (93) 488 03 18
Fax (34) (93) 487 32 36

France

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 57
Fax (33) (1) 60 79 69 21

PACIFIC

Australia

GE Plastics (Australia) Pty. Ltd.
175 Hammond Road
Dandenong, Victoria 3175
Australia
Tel. (61) 39 794 4204
Fax (61) 39 794 8563

Beijing

GE Plastics
Citic Building, 3rd Floor
No. 19 Jian Guo Men Wai Avenue
Beijing 100004
China
Tel. (86) 10 6500 6538
Fax (86) 10 6500 6476

Guangzhou

GE Plastics Guangzhou
Room 1212, Yi An Plaza
No. 38, Jian She 6 Road
Guangzhou, 510060
China
Tel. (86) 20 8387 2818
Fax (86) 20 3128 or 3118

Hong Kong

GE Plastics Hong Kong Ltd.
Rm 1008, Tower 1, The Gateway
25 Canton Road
Kowloon
Hong Kong
Tel. (852) 26 29 0880
Fax (852) 26 29 0801

Indonesia

GE Plastics Indonesia
Menara Batavia 5th Floor,
JI KH Mas Manyur kav.126
Jakarta 10220
Indonesia
Tel. (62) 21 574 4980
Fax (62) 21 574 7101

Japan

SP Pacific Ltd.
Nihonbashi Hamacho Park Bldg. 5th Floor
2-35-4 Nihonbashi Hamacho
Chuo-ku, Tokyo 103
Japan
Tel. (81) 3 569 6301
Fax (81) 3 569 6306

Korea

GE Plastics Korea Co. Ltd.
#231-8 Nonhyun-Dong
Kangnam-Ku
Seoul 135-010
Korea
Tel. (822) 510 6273
Tel. (882) 510 6291
Fax (822) 510 6299

Shanghai

GE Plastics Shanghai
10th Floor, Shartex Center
88 Zunyi Road(s)
Shanghai 200335 China
Tel. (86) 21 6270 6789
Fax (86) 21 6270 9973
Fax (86) 21 6270 9974
Fax (86) 21 6270 9975

Singapore

GE Singapore
GE Tower, 240 Panjang Pagar Road
#500 Singapore 088540
Tel. (65) 326 3900
Fax (65) 326 3946

Taiwan

GE PLASTICS
13th Floor, #168
Tun Hua North Road
Taipei
Taiwan
Tel. (886) 2 514 9842
Fax (886) 2 514 9921

Thailand

GE Plastics Thailand
15th Floor, Thaniya Plaza Buiding
52 Silom Road, Bangkok 10500
Thailand
Tel. (662) 231 2918
Fax (662) 231 2322

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.

Lexan® and Thermoclear® are Registered Trademarks of General Electric Co., USA.

