



Product Data Sheet

Lexan® 8A35 Film

Description

Lexan 8A35 is a one side velvet, one side polished transparent polycarbonate film.

Lexan 8A35 offers high temperature resistance, excellent dimensional stability as well as good printability without pre-treatment making it very suitable for multi-layer printing.

Typical applications include:

- control panel overlays
- remote control overlays
- high performance labels
- floor graphics
- in-mould decoration
- automotive instrument clusters
- HV/AC overlays
- appliance overlays

Texture	Gauge (mm)	Colour
velvet/polished	0.125	112
	0.175	
	0.250	
	0.375	
	0.500	





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Property	Test	Unit	Value+
Physical			
Density	ISO 1183	g/cm ³	1.20
Water absorption, saturation, 23°C	ISO 62	%	0.35
Pencil Hardness	ASTM D3363	-	B
Optical			
Refractive index, 25°C	DIN 53491	-	1.586
Light Transmission, average	ASTM D1003	%	88-91
Gardner gloss @ 60°	ISO 2813	%	8-14
Mechanical			
Tensile stress at yield	ISO 527	MPa	60
at break		MPa	70
Strain at break	ISO 527	%	120
Tensile Modulus	ISO 527	MPa	2350
Tear Strength initiation	ASTM D1004	kN/m	245
propagation	ASTM D1922	kN/m	10-20
Burst Strength, Mullen 25 micron	ASTM D774	N/mm ²	0.28
Fold Endurance, double 250 micron	MIT	folds	200
Thermal			
Tensile Heat Distortion, 0.35 N/mm ²	ASTM D1637	°C	150
DTUL, 1.8 N/mm ²	ISO 75	°C	135
Vicat Softening Temperature, B	ISO 306	°C	150
Specific Heat	ASTM C361	kJ/kg.°C	1.25
Coefficient of Thermal Expansion	DIN 53752	1/°C	7x10 ⁻⁵
Thermal Conductivity	DIN 52612	W/m.°C	0.20
Strain Relief, 135°C	ASTM D1204	%	<0.2
Brittleness Temperature	ASTM D746	°C	-135
Electrical			
Dielectric Strength at 23°C in Oil, Short Time, 250 micron	IEC 243-1	kV/mm	67
Relative Permittivity 50 Hz	IEC 250	-	2.99
1 MHz		-	2.93
Dissipation Factor 50 Hz	IEC 250	-	0.0009
1 MHz		-	0.010
Volume Resistivity	IEC 93	Ohm.cm	10 ¹⁵
Surface Resistivity	IEC 93	Ohm	10 ¹⁵
Arc Resistance, Tungsten	ASTM D495	s	120

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

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Typical Film Properties

Property	Unit	Value
Scratches	mm	<6 Hairline, Buff Type
Web Edge Curl*		
Machine direction	mm	<2.5
Transverse direction	mm	<12.3
Defect Size		
> 0.6 mm	Nr.	2/10m ²
> 0.4 mm	Nr.	2/0.1m ²
> 0.1 mm	Nr.	20/0.1m ²
Nominal Gauge		
Variation < 0.375 mm	%	10 %
>= 0.375	%	5 %

* Films from 375 to 750 micron gauge may contain curl due to roll set. This property can be minimized by double reverse winding the rolls approximately 48 hours prior to sheeting.

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) (0)207 744 0000
Fax (44) (0)161 9055 196

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.
Nihombashi Hamacho Park Bldg. 5th Floor
2-35-4 Nihombashi Hamacho
Chuo-ku, Tokyo 103-0007
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 6373
Fax (822) 510 6420

Shanghai

GE Plastics Shanghai
26th Floor, United Plaza
1468 Nanjing Road (W)
Shanghai 200040 China
Tel. (86) 21 6288 1088
Fax (86) 21 6288 0818

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

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