

Lexan* SL2030T Sheet

Product Datasheet

Description

Lexan* SL2030T is a UV-stabilized, transparent, polycarbonate sheet with a thermoformable masking on both sides. 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
- bike helmets

Typical Property Values ♦

Property	Test Method	Unit	Value ¹⁾
Physical			
Density	ISO 1183	g/cm ³	1.20
Water absorption, 24 hours equilibrium	ISO 62	%	0.15
		%	0.35
Optical			
Light transmission	ASTM D 1003	%	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,	ISO 180-1A	KJ/m ²	65
		KJ/m ²	10
Gardner impact,	GE method	J	>37
		J	>37
Thermal			
Vicat Softening Temp., Rate B/120	ISO 306	°C	145
Mold shrinkage	ISO 527	%	0.5-0.7
HDT, 0.45 MPa	ISO 75 /Be	°C	138
Thermal expansion	ASTM D696	1/°C	7x10 ⁻⁵

¹⁾ Typical values only. Variations within normal tolerances are possible for the various textures.

♦ These property values have been derived from Lexan* resin data for the material used to produce this sheet product.

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Processing

Lexan* SL2030T sheet can be drape formed at a maximum of 155 °C, normally without pre-drying. For detailed information about forming conditions check our technical guide lines

Chemical resistance

Lexan SL2030T sheet 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 SL2030T sheet 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-Plastics for advice on specific applications.

Product Availability

Texture	Gauges (mm)	Color
Polished/polished	0.75	112 (transparent)
	1.00	
	1.50	
	2.00	
	3.00	

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