



Lexan® LCS

Corrugated Polycarbonate Sheet

10
years
limited
warranty

HESKETH'S

Lexan Corrugated Sheet (LCS) is a transparent, profiled glazing sheet extruded from Lexan polycarbonate resin. It is the ideal choice for durable, attractive glazing in a wide range of applications, from private extensions and garages, to commercial greenhouses, skylights, partitions, carports and industrial buildings.

Resistance to 'Yellowing'

Lexan LCS sheet has a protective layer on one side which minimises the damaging effects of UV radiation in sunlight. The UV protected surface is marked with a continuous ribbon with the text "Install this side (UV protected side) outwards".

High Impact Strength

LCS has outstanding impact performance over a wide temperature range, -40°C to + 120°C. In addition, the product is virtually unbreakable in case of storms, hail-stones etc. The hail simulation test shows that LCS can withstand hail stones with a typical diameter of 20mm at speeds higher than 21m/s.

Light Transmission

Transparent LCS provides an excellent light transmission equal to 89%.

Safe Fire Test Performance

Lexan LCS is self-extinguishing and difficult to ignite. Like all Lexan sheet products, it is

universally considered to be a safe material under fire conditions.

Loading Capacity

The loading capacity table gives maximum external loadings before buckling of LCS. At lower loadings the deflection behaviour of the sheet will vary with the fixing or clamping conditions.

Site Safety

Despite the high strength of polycarbonates, sensible precautions should be taken when working with LCS. In particular, crawl boards should be used during installation. Do not walk directly on sheets.

Warranty

GE structured products offers a limited warranty on all standard Corrugated Sheet products, covering loss of light transmission within ten (10) years of the date of sale and loss of impact strength due to weathering within five (5) years of the date of sale. See warranty for exact details.

Availability

Lexan LCS is available in heights of 2.5m and 3m and a width of 1260mm. Sheets are 0.8mm thick.



Loading Capacity

Profile Type	Recommended Span (mm)	Max allowable loading (Nm ²)		
		Single span/end span	Centre span	Radius 3m end/centre span
LCS	1000	1000	1500	1000/1500
	1200	500	1000	500/1000

Typical Properties

Property	Test Method	Unit	Value
Physical			
Density	ISO 1183	g/cm ³	1.20
Water permeability (1mm), 24 hrs	DIN 53122	g/m ³	2.3
Optical			
Light transmission (1mm)	ASTM D1003	%	89
Mechanical			
Tensile strength, yield	ISO 527	MPa	60
Elongation, yield	ISO 527	%	7
Tensile modulus	ISO 527	MPa	2300
Gardner Impact (1mm)	GE Method	J	24
Thermal			
VICAT softening temp, rate	ISO 306	°C	145
Coefficient of linear thermal expansion	DIN 53752	1/°C	7x10 ⁻⁵
Continuous use temp rating	UL 746B	°C	100
Oxygen Index	ISO 4589	%	25



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