

Lexan*Thermoclear* Sheet LTC2R8

Product Datasheet

Description

LTC2R8 sheet is a member of the Lexan* Thermoclear* sheet range of high quality, multi-wall polycarbonate glazing sheets extruded from Lexan resin. This product has thin wall tunnel rectangular structure, which may be an excellent candidate for vertical and curved applications. Also, it offers high impact strength, excellent light transmission, light weight, easy installation, long-term weather resistance, outstanding thermal insulation properties.



Typical Property Values ♦

Property	Test Method	Unit	Value
Physical			
Specific Gravity	ASTM D792		1.20
Thickness		inches	.315
Weight		lbs/ft ²	0.34
Light Transmission	ASTM D1003	%	
Clear			82
Bronze			50
Opal			40
White			20
Refractive Index†	ASTM D542		1.586
Cold Forming, Minimum Bend Radius ††		inches	55
Thermal			
Coefficient of Thermal Expansion †	ASTM D696	in/in x °F	3.75 x 10 ⁻⁵
HDT, 66 psi, 0.250", unannealed†	ASTM D648	°F	280
U-Value	ISO 8301	Btu/hr x ft ² x °F	.58
Shading Coefficient	ASHRAE		
Clear			1.00
Bronze			.78
Opal			.70
White			.53
Solar Transmission	ASHRAE	%	
Clear			86
Bronze			60
Opal			50
White			30

♦These typical values are not intended for specification purposes. If minimum certifiable properties are required please contact your local GE Plastics, Specialty Film & Sheet representative.

†Properties of Resin

†† The cold bending must be parallel to the ribs of the sheets. Ratio between width and length should be > 1:2



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MODEL BUILDING

Lexan*Thermoclear* LTC2R8 sheet meets the light-transmitting plastics flammability requirements set by the International Building Code. Legacy reports, BOCA 22-21, ICBO ER3286, and SBCCI 9592B are available at www.icc-es.org/Evaluation_Reports/index.shtml.

Test	Rating
ASTM D1929	
Flash Ignition	940 °F
Self-Ignition	>1000°F
ASTM D635	CC1
ASTM E-84	Class A

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UV Resistance

The complete Lexan Thermoclear sheet range features a proprietary UV resistant surface designed to protect the sheet against the degrading effects of ultra-violet radiation in natural sunlight. This side must always be installed facing outwards.

Warranty

Clear Lexan Thermoclear sheet is backed by a ten-year limited written warranty against yellowing, loss of light transmission and hail damage. (Request details of limited warranty and maintenance instructions.)

Non-Standard Specifications

All GE Plastics multi-wall sheet products in non-standard widths, lengths, and colors are quoted on request. Such arrangements may affect prices, warranty terms and/or other conditions of sale. Please contact your nearest GE Plastics Sales Office or approved Lexan Thermoclear sheet distributor to determine capability.

Installation

For more advice and information on installation, contact your nearest GE Plastics Sales Office or approved Lexan Thermoclear Sheet Distributor



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Availability (LTC2R8)

Specifications are as follows:

Width	Length	Standard Colors	Manufacturing Tolerances
47.25"	36"	Clear 112	Overall Gauge \pm 0.02 Weight \pm 5%"
48"	to	Bronze 5109	
71.25"	50'	Opal 825074	
72"		White 825075	
82.68"			

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