

Lexan*Thermoclear* Sheet LTC2R10

Product Datasheet

Description

LTC2R10 sheet is a member of the Lexan* Thermoclear* sheet range of high quality/multiwall polycarbonate glazing sheets extruded from Lexan resin. This product has twin wall 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, and outstanding thermal insulation properties.



Typical Property Values ♦

Property

Property	Test Method	Unit	Value
Physical			
Specific Gravity †	ASTM D792		1.20
Thickness		inches	.393
Weight		lbs/ft ²	0.40
Light Transmission	ASTM D 1003	%	
Clear			80
Bronze			50
Opal			40
White			20
Green			66
Refractive Index †	ASTM D542		1.586
Cold Forming, Minimum Bend Radius ††		inches	69
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	0.53
Shading Coefficient	ASHRAE		
Clear			.98
Bronze			.78
Opal			.70
White			.53
Green			.89
Solar Transmission	ASHRAE	%	
Clear			85
Bronze			60
Opal			50
White			30
Green			73

♦ These typical values are not intended for specification purposes.

†) 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 CODE#

Lexan* Thermoclear* LTC2R10 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

These are typical properties and are not intended for specification purposes.

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.)