

Lexan*Thermoclear* LTC3T16 Sheet

Product Datasheet

Description

LTC3T16 is a member of the Lexan*Thermoclear*Sheet range of high quality/multiwall polycarbonate glazing sheets extruded from Lexan resin. This product has a triple wall 'tunnel 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

Physical	Test Method	Unit	Value
Specific Gravity†	ASTM D792		1.20
Thickness		inches	.629
Weight		lbs/ft ²	.57
Light Transmission	ASTM D1003	%	
Clear			74
Bronze			50
Opal			40
White			20
Refractive Index†	ASTM D542		1.586
Cold Forming, Minimum Bend Radius ††		inches	110
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	0.42
Shading Coefficient	ASHRAE		
Clear			.95
Bronze			.78
Opal			.70
White			.53
Solar Transmission	ASHRAE	%	
Clear			82
Bronze			60
Opal			50
White			30

♦ 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* LTC3T16 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 B

#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.)