

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. 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 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. If minimum certifiable properties are required, please contact your local GE Plastics representative or the GE Plastics Quality Services Department.

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 (LTC3T16)

Specifications are as follows:

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

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