

LEXANTM THERMOCLEARTM LITE LC20613NV POLYCARBONATE SHEET

PRODUCT DATASHEET

DESCRIPTION

LEXAN™ THERMOCLEAR™ LITE sheet is a structural sheet made of polycarbonate resin. The sheet combines high thermal insulation, light transmission and low weight with high stiffness and impact resistance. It can be cold curved and cut to size.

TYPICAL PROPERTY VALUES*

GRADE	GAUGE MM	Weight	SOUND RED. VALUE [†]	U-Value¥ W/m²K	Impact Test¶ Gardner	LT° D65
		kg/m²	(DB)			%LT
LC20613NV						
Clear 112	6	1.2	17	3.56	>60	80
Opal White 825075	6	1.2	17	3.56	>60	20
Bronze BR236	6	1.2	17	3.56	>60	36
Grey GY424	6	1.2	17	3.56	>60	24

• These property values have been derived from Lexan* resin data for the material used to produce this sheet product

[‡] Sound reduction values based on Sabic calculated values according DIN 52210-75

[¥] U-values based on Sabic calculated values according ISO 10077 (EN673)

¹ Hail simulation test developed by TNO, Netherlands, artificial hailstones of 20 mm diameter are shot at the sheet at min. speed of 21 m/sec.

• LT (Light Transmission) and TST (Total Solar Transmission) measurements according ISO 9050 (EN 410) on 600x600 mm samples

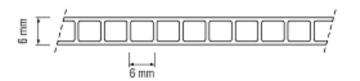
[#] TST (Total Solar Transmission) divided by 100 equals Solar Heat Gain Coefficient (SHGC) or g-value.

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Other Colors Available:

COLOR	COLOR NUMBER
Blue	BL350
Green	GN736
Blue White	C920

STRUCTURES AND DIMENSIONAL TOLERANCES



DIMENSIONAL TOLERANCES

	Gauge	Width	Length <6m	Length >6m
6 mm	+/- 8%	+/- 0.5%	+ 12 mm	+ 30 mm

DEFINITIONS

LIGHT TRANSMISSION

LEXAN THERMOCLEAR LITE sheet in clear color transmits the visible light range very well. Light transmission D65 (%LT) measures the percentage of visible light that passes through the sheet.

THERMAL INSULATION

The multi-wall structure of LEXAN THERMOCLEAR LITE sheet offers significant advantages where thermal insulation is a major consideration. The hollow form provides excellent insulation characteristics with heat losses significantly lower than mono-wall glazing materials.

FIRE TEST PERFORMANCE

LEXAN THERMOCLEAR LITE sheet has good fire behavior characteristics. More detailed information is available from your local SABIC Innovative Plastics' Service Center or authorized dealer.

SOUND INSULATION

The sound insulation characteristics of a material are largely pre-determined by its stiffness, mass and physical construction. According to DIN 52210-75, the maximum obtainable sound is 21dB.

IMPACT STRENGTH

LEXAN THERMOCLEAR 1UV LITE sheet has outstanding impact performance over a wide temperature range, -40°F to 248°F , (-40°C to 120°C) and also after prolonged outdoor exposure.



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