

LEXAN™ THERMOCLEAR™ 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 kg/m ²	SOUND RED. VALUE † (DB)	U-Value‡ W/m ² K	Impact Test¶ Gardner	LT* D65 %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)
- ¶ 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.
- * Trademarks of SABIC Innovative Plastics IP BV

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.



CONTACT US:

SABIC CORPORATE HQ

PO Box 5101
Riyadh 11422
Saudi Arabia
T +966 (0) 1 225 8000
F +966 (0) 1 225 9000
E info@sabic.com

AMERICAS

SABIC
Functional Forms
2500 City West Boulevard
Suite 100
Houston, TX 77042
USA
Toll-free (800) 323 3783
F (888) 443 2033
E spinside.sales@sabic.com

EUROPE

SABIC
Functional Forms
Plasticslaan 1
4612 PX
Bergen op Zoom
The Netherlands
T +31 (0)164 293684
F +31 (0)164 292272
E ff.info@sabic.com

PACIFIC

SABIC
Functional Forms
2550 Xiupu Road
Pudong
201319 Shanghai
China
T +86 20 2866 6168
E ff.info@sabic.com

DISCLAIMER: THE MATERIALS, PRODUCTS AND SERVICES OF SAUDI BASIC INDUSTRIES CORPORATION (SABIC) OR ITS SUBSIDIARIES OR AFFILIATES ("SELLER") ARE SOLD SUBJECT TO SELLER'S STANDARD CONDITIONS OF SALE, WHICH ARE AVAILABLE UPON REQUEST. INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS DOCUMENT ARE GIVEN IN GOOD FAITH. HOWEVER, SELLER MAKES NO EXPRESS OR IMPLIED REPRESENTATION, WARRANTY OR GUARANTEE (i) THAT ANY RESULTS DESCRIBED IN THIS DOCUMENT WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN OR APPLICATION INCORPORATING SELLER'S MATERIALS, PRODUCTS, SERVICES OR RECOMMENDATIONS. UNLESS OTHERWISE PROVIDED IN SELLER'S STANDARD CONDITIONS OF SALE, SELLER SHALL NOT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS, SERVICES OR RECOMMENDATIONS DESCRIBED IN THIS DOCUMENT. Each user is responsible for making its own determination as to the suitability of Seller's materials, products, services or recommendations for the user's particular use through appropriate end-use and other testing and analysis. Nothing in any document or oral statement shall be deemed to alter or waive any provision of Seller's Standard Conditions of Sale or this Disclaimer, unless it is specifically agreed to in a writing signed by Seller. Statements by Seller concerning a possible use of any material, product, service or design do not, are not intended to, and should not be construed to grant any license under any patent or other intellectual property right of Seller or as a recommendation for the use of any material, product, service or design in a manner that infringes any patent or other intellectual property right. SABIC and brands marked with TM are trademarks of SABIC or its subsidiaries or affiliates, unless otherwise noted.

© 2022 Saudi Basic Industries Corporation (SABIC). All Rights Reserved.

Any brands, products or services of other companies referenced in this document are the trademarks, service marks and/or trade names of their respective holders.