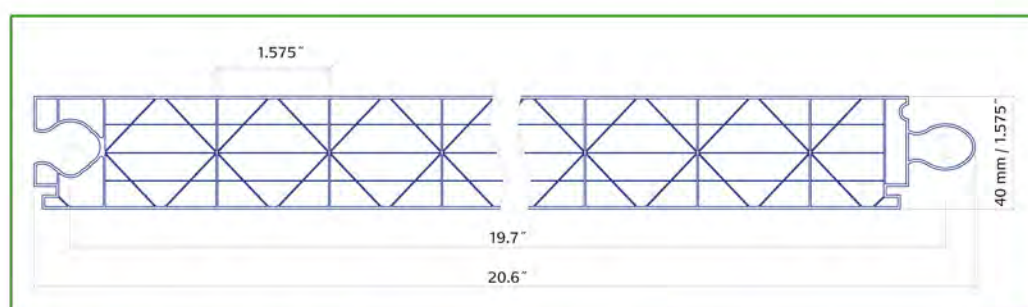


Cladding and façades have an important influence on the character of a building. The cost of heating and cooling is reaching new levels, causing builders to look for new alternatives to increase energy efficiency.

To address this concern, SABIC Innovative Plastics has developed two new Lexan® Thermoclick® sheet systems in 40 and 50 mm thicknesses.

These products are an excellent candidate for applications such as cladding and façades of residences, commercial buildings, shopping centers, office buildings, and factories. These new systems can not only help customers reduce heating and cooling costs, but also cut energy usage and CO<sub>2</sub> emissions to benefit the environment.

SABIC Innovative Plastics' high-performance Lexan Thermoclick sheet products can give the building and construction industry new ways to meet demands for increased energy efficiency in living and working environments. Also these new products allow designs that are visually striking and yet extremely practical. Furthermore, the low maintenance end product can help to resist rust, rot or warp. Installation costs may be kept low as each product is designed using custom-made configurations for fast on-site assembly. A 10-year limited written warranty is given against loss of light transmission, discoloration and breakage.



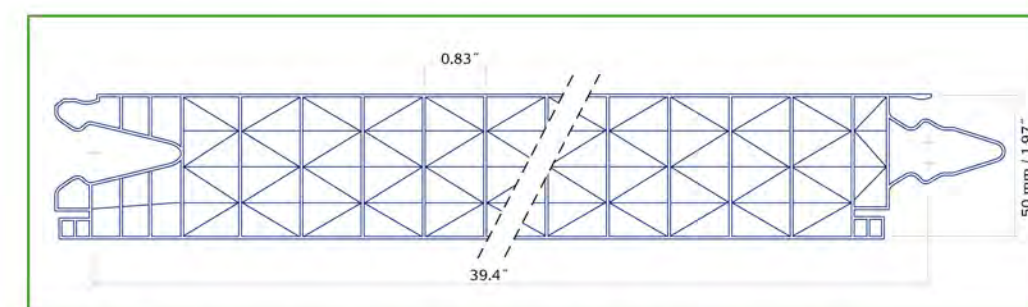
### Lexan Thermoclick sheet in 40 mm thickness

With specially designed tongue and groove connection, Lexan Thermoclick sheet in 40 mm thickness [LTC404X4000] offers high impact resistance and very high thermal insulation leading to energy saving. This inter-connecting system including a groove for double-sided tie on the inside eliminates the need for vertical profiles, thereby saving costs and enhancing aesthetics. Also improved fix-key section connection can provide better loading performance compared to previous design.

#### Lexan Thermoclick sheet in 40 mm [LTC404X4000] offers

- Unique 5-wall with X-structure
- UV protected outer surface
- Good light transmission and light diffusion characteristics
- **Improved-loading performance**
- **Excellent thermal insulation of 0.224 Btu/h ft<sup>2</sup> °F**
- High impact strength
- 10-year limited written warranty against long-term weathering conditions
- Fast and easy installation
- Wide range of colors and aesthetic effects

Property Profile	Value	Test Method
Panel width ctc	19.68 in ±0.01"	
Standard length	≤ 19.68 ft -0", +0.79" > 19.68 ft -0" +1.18"	
Panel total thickness	1.57" ±0.031"	
Weight per unit area	0.82 lb/ft <sup>2</sup> ±5%	
Hail impact	diam. 0.79" v ≥ 69 ft/sec	TNO Test
Temperature resist.	-40 up to 212 °F	UL 746 BEN
U-Value	<b>0.224 Btu/h ft<sup>2</sup> °F</b>	ISO 10077 (EN673)
R-Value	<b>4.47 ft<sup>2</sup> °F h/Btu</b>	ISO 10077 (EN673)
Fire classification	<b>CC1</b>	D635
	<b>Class A</b>	E84
Coeff. of linear thermal expansion	3.75 x 10 <sup>-5</sup> in/in °F	DIN 53752



### Lexan Thermoclick sheet in 50 mm thickness

The new 50 mm Lexan Thermoclick sheet [LTC509X] is a unique, 9-wall product with a superb U-value of 0.176 Btu/h t<sup>2</sup> °F leading to energy saving. This new product offers superior insulation properties vs. multi-pane glass, plus lightweight, extremely high impact resistance, stiffness and ultra violet (UV) protection. With specially designed V-joint connection profile, including a groove for double-sided tie on the inside, this inter-connecting system eliminates the need for vertical profiles, thereby saving costs and enhancing aesthetics.

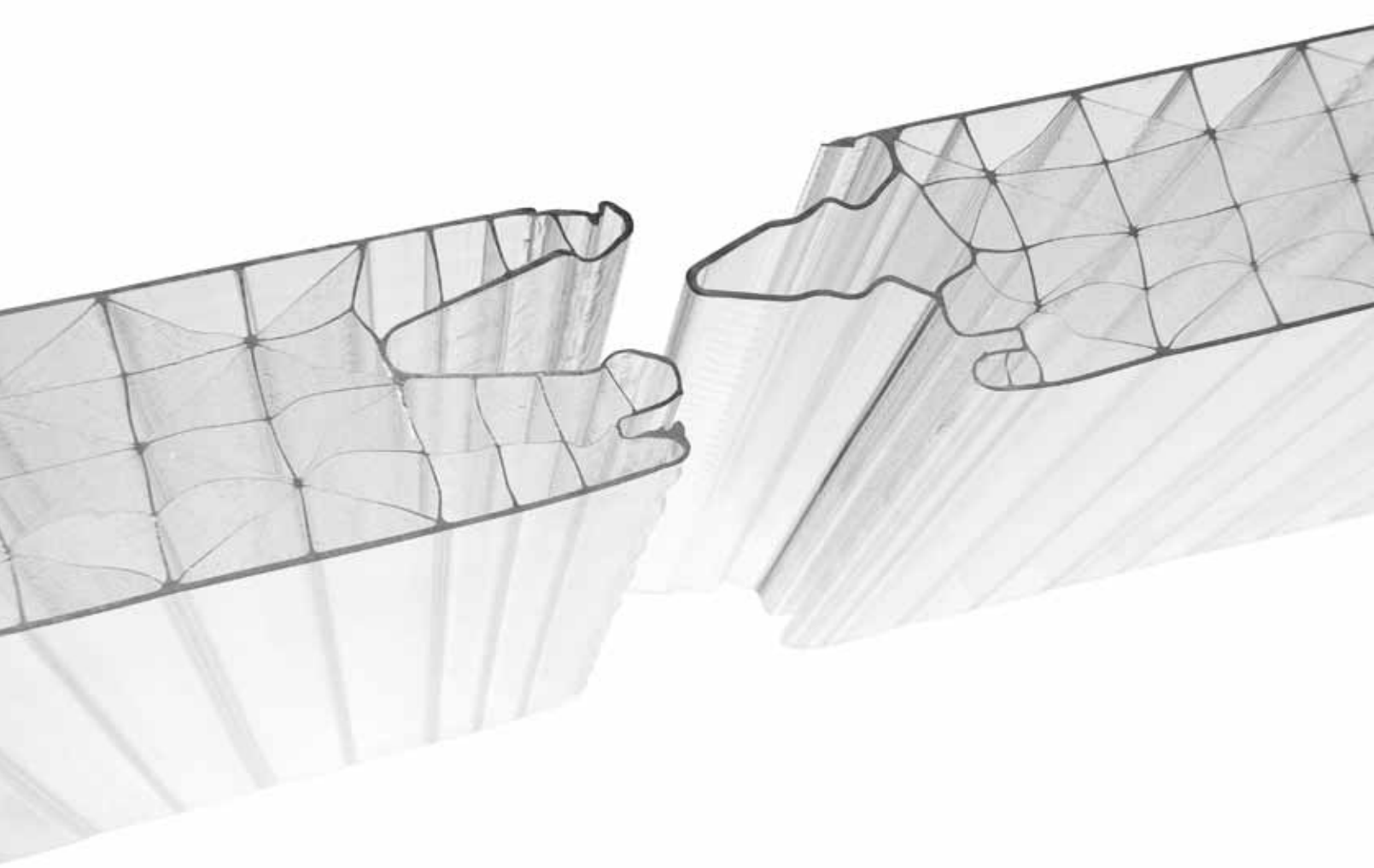
#### Lexan Thermoclick sheet in 50 mm [LTC509X] offers

- Unique 9-wall with X-structure
- UV protected outer surface
- Good light transmission and light diffusion characteristics
- Extremely high stiffness
- Superb thermal insulation of 0.176 Btu/h t<sup>2</sup> °F
- High impact strength
- 10-year limited written warranty against long-term weathering conditions
- Simple, easy and fast installation
- Wide range of colors and aesthetic effects

Property Profile	Value	Test Method
Panel width ctc	39.37 in ±0.01"	
Standard length	≤ 19.68 ft -0", +0.79" > 19.68 ft -0" +1.18"	
Panel total thickness	1.97" ±0.04"	
Weight per unit area	1.05 lb/ft <sup>2</sup> ±5%	
Hail impact	diam. 0.79" v ≥ 69 ft/sec	TNO Test
Temperature resist.	-40 up to 212 °F	UL 646 BEN
U-Value	<b>0.176 Btu/h ft<sup>2</sup> °F</b>	ISO 10077 (EN673)
R-Value	<b>5.68 ft<sup>2</sup> °F h/Btu</b>	ISO 10077 (EN673)
Coeff. of linear thermal expansion	3.75 x 10 <sup>-5</sup> in/in °F	DIN 53752







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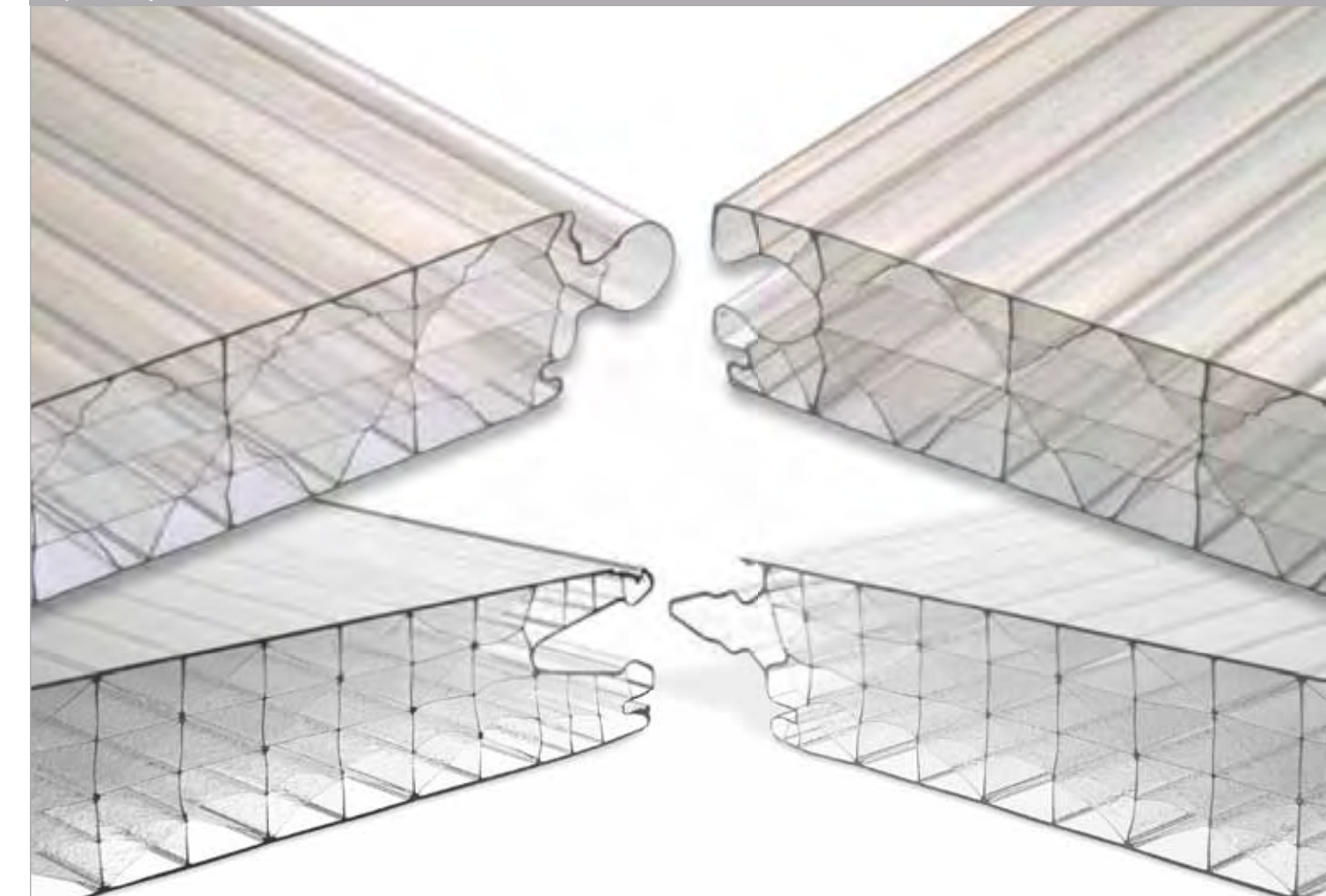
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SABIC  
Innovative  
Plastics™

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## Specialty Film & Sheet



High Energy Efficiency & Creative Designs  
The New and Innovative Lexan\* Thermoclick\* Tongue and Groove Sheet  
in 40 mm and 50 mm Thicknesses

Sharing our futures