

Specialty Film & Sheet



Yellow is nice for a lemon
but not for your glazing!

Superior resistance to outdoor weathering

Lexan Thermoclear Plus sheet has 2 sides proprietary UV-protected surface, giving superior resistance to outdoor weathering. The unique protection helps to provide long-term optical quality under intensive sunlight exposure, and maintains the superior toughness of the polycarbonate material in comparison to other thermoplastic glazing.

According to accelerated 4,000 hours weathering tests (figure 1) (DIN53387 / ASTM G26) that have been carried out at SABIC Innovative Plastics laboratories, Lexan Thermoclear sheet is superior to other available polycarbonate multiwall glazing products. This test is comparable to 10 years outdoor exposure in moderate climate conditions.

Lexan Thermoclear offers a ten year limited written warranty against discoloration, loss of light transmission and loss of impact strength due to weathering.

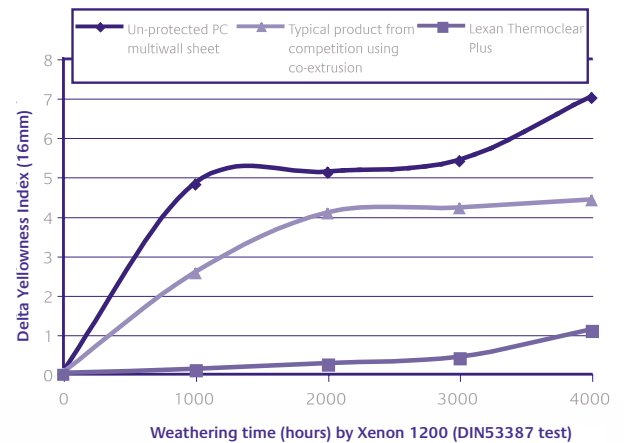


Figure 1 Yellowness Index through weathering

The samples presented here show three polycarbonate multiwall sheet samples displaying 3 levels of Yellowness Index.

Sample 1

Yellowness Index of 0Δ .
reference sample = original value

Sample 2

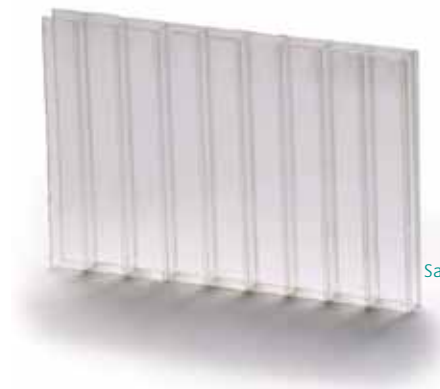
Yellowness Index of 2Δ .
compared to the original value

Sample 3

Yellowness Index of 10Δ .
compared to the original value

Yellowness Index measurement is performed according to ASTM D1925 (1977) test. The limited written warranty states that Lexan Thermoclear Plus sheets (in a clear color) will not display a change in Yellowness Index of more than 2Δ (sample 2) compared with their original value (sample 1), whereas most of other PC multiwall sheet producers warrant that their sheets will not display a change in Yellowness Index of more than 10Δ (sample 3).

Please consult your local distributor or SABIC Innovative Plastics business Sales Office for more details.



Sample 1 $\Delta Y_i = 0$



Sample 2 $\Delta Y_i = 2$ Lexan* Thermoclear* Plus sheet warranty



Sample 3 $\Delta Y_i = 10$ Typical Multiwall PC sheet warranty

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