

LEXAN™ THERMOCLEAR™ SHEET

LEXAN THERMOCLEAR sheet has a standard proprietary UV-protection coating on both side surfaces, providing excellent UV and yellowing resistance for outdoor weathering.

The unique protection of LEXAN™ THERMOCLEAR™ sheet 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 products.

According to accelerated 8,000 hours weathering tests (ISO 11341 / ASTM G155) that have been carried out at SABIC's Innovative Plastics laboratories (figure 1), 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 with superior conditions compared to competitive products.

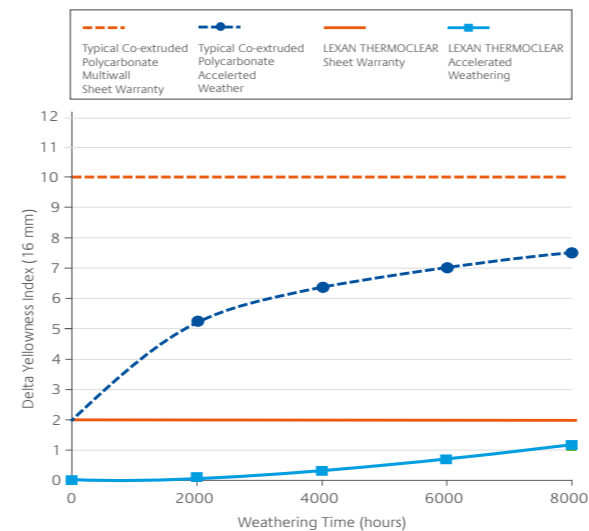


Figure 1: Yellowness index through ATLAS Ci5000 (ISO 11341 / ASTM G155) weathering.

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 sheets (in 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 other polycarbonate multiwall sheet producers warrant that their sheets will not display a change in Yellowness Index of more than 10 Δ. (sample 3).

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



Sample 1:
ΔYi = 0



Sample 2:
ΔYi = 2: LEXAN THERMOCLEAR sheet warranty



Sample 3:
ΔYi = 10: Typical polycarbonate multiwall sheet warranty

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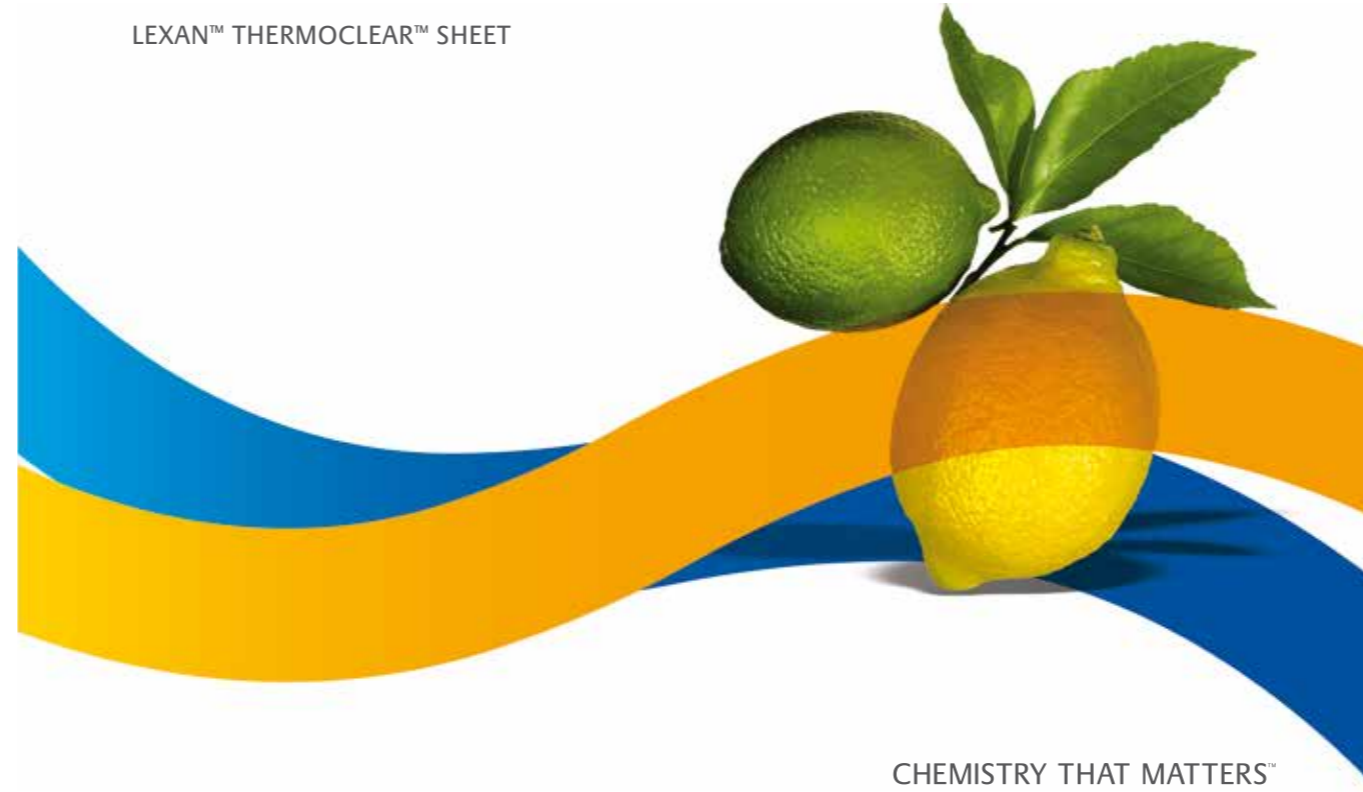
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YELLOW IS NICE FOR
A LEMON BUT NOT
FOR YOUR GLAZING!

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CHEMISTRY THAT MATTERS™

