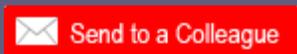


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**Frequently Asked
 Product Question:**

Q: What is the difference between direct light and diffused

AmeriLux Newsletter

June 2014

Introducing:

LEXAN™ THERMOCLEAR™ 15 SHEET

"High-Performance Polycarbonate Panels offer 15-Year Warranty"



AmeriLux International is pleased to offer the industry's most advanced multiwall polycarbonate sheet: **LEXAN™ THERMOCLEAR™ 15** manufactured by SABIC's Specialty Film and Sheet Division. This high-performance, lightweight panel provides an outstanding balance of impact strength and stiffness, excellent thermal insulation, UV protection, flame and condensation control, and long-term high light transmission. **LEXAN™ THERMOCLEAR™ 15 is the INDUSTRY'S ONLY polycarbonate multiwall glazing panel available with a 15-YEAR WARRANTY!**

LEXAN™ THERMOCLEAR™ 15 multiwall polycarbonate (PC) sheet is available in a minimum gauge of 4.5mm to a maximum of 16mm in the following standard colors: clear, white, opal, bronze, Softlite and Solar Control IR*. An established brand name for over 40 years, the LEXAN™ THERMOCLEAR™ 15 panel is a perfect glazing alternative for a wide variety of horticultural, architectural, industrial, residential, and agricultural applications. Field-proven performance in clarity, strength and light transmission, the LEXAN™ THERMOCLEAR™ 15 multiwall sheet offers:

- **LONG LIFE** - Virtually No Yellowing! This sheet will not break due to loss of impact strength from weathering and comes with the only 15-Year Warranty in the industry!

light?

A: Direct light is intense, bright light coming from a single source in one direction. Direct light creates sharply defined, deep shadows and flattens out three-dimensional detail.

Diffused light is a soft light with neither the intensity nor the glare of direct light. Scattering in many different directions, diffused light is spread over and reflected around objects, and does not cast harsh shadows.

[FIND MORE FAQ ON OUR WEBSITE - CLICK HERE](#)

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Polycarbonate Term:

PAR

Photosynthetic Active Radiation (PAR) is a term that refers to the amount of light within the 400- to 700-nanometer wavelength range. This is the range of light within the visible light range that is used by plants for photosynthesis and is

Sheets will not lose more than 4% light transmission or change more than 5 Delta from the original yellowing index of 0 over a fifteen-year period. Warranty also covers fifteen years against breakage caused by hail. 100% full replacement value offered for the first eight years.

- **HIGH LIGHT TRANSMISSION** - The proprietary UV protection on the sheet's outer surface provides long-term optical quality, high light transmission, and superior resistance to outdoor weathering. This unique UV-protected surface helps to maintain the superior toughness of the polycarbonate material. UV protection is available on one or both sides of the sheet.
- **OUTSTANDING IMPACT PERFORMANCE** - Virtually unbreakable, this impact resistant multiwall panel is 10 times stronger than acrylic and 200 times stronger than glass. Even when exposed to harsh weather conditions, as well as extreme temperatures (-40°F to +240°F) over a long period of time, this sheet will maintain its structural integrity.
- **DRIPGARD FEATURE** - A specially developed anti-condensate coating helps create an optimal greenhouse environment. This anti-drip feature on the sheets inner surface reduces the formation of condensation droplets, which in turn prevents crop spoilage and loss of light transmission. In pool enclosures or other damp environments, condensation control helps reduce mildew and fungus growth. Available in all gauges. Currently stocked in 8mm twinwall and 16mm triplewall.
- **HIGH LIGHT DIFFUSION** - Softlite multiwall sheet's advanced polymer technology scatters light eliminating greenhouse "hot spots". The scattering of the light encompasses both the top and bottom leaves resulting in more usable energy to the plant, brighter colors, and virtually eliminates shadows. This 100% light diffusion feature makes these sheets an excellent glazing choice for covering a greenhouse. Where the uniformity of the light delivered to the plants is key to successful greenhouse production and higher crop yields. Available in 8mm twinwall and 16mm triplewall.
- **EXCELLENT THERMAL PROPERTIES** - The hollow channels of the panel's structure enhance thermal insulation, sound insulation, and impact energy absorption. These outstanding thermal insulation properties of the multiwall sheet make a building more efficient to heat during the

regarded by many horticulturalists as being critical for proper plant growth and development.

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If you have a recent project that incorporated our products, we would like to see it! Simply [CLICK HERE](#) to email photos and a brief description.

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winter and help to reduce utility bills.

- **TOP FIRE RATINGS** - Polycarbonate panels offer excellent flame retardant properties. Multiwall polycarbonate is classified as CC1 in accordance with ASTM D-635 and ASTM E-84 rated Class A for interior surface material. When compared to acrylic, this sheet offers higher flame ratings, which means lower insurance rates.

There is no other polycarbonate sheet equal to LEXAN™ THERMOCLEAR™ 15 in performance! To learn more about these **High-Performance Polycarbonate Glazing Panels and the Industry's Only 15 Year Warranty**, please call the Customer Service A-Team at 888.602.4441.

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**Not all gauges and colors will be stocked by AmeriLux International. Call for availability.*

Emerging Trends in Polycarbonate Glazing

"A High-Performance Greenhouse Covering - LEXAN™ THERMOCLEAR™ 15"

Over the last twenty-six years, Tami Churchill Myers has seen a lot of changes in the polycarbonate industry. The use of polycarbonate products on structures in the United States is growing. Recent technologies have revolutionized the use of polycarbonate as a greenhouse covering, resulting in a more desirable and customizable option for growers.



Polycarbonate has emerged as a more effective and economical glazing alternative to some of the more traditional coverings such as glass, acrylic and polyethylene film.

Tami is Vice-President and Co-Owner of AmeriLux International and oversees the Horticultural and Metal Roofing Marketing Segments. I recently sat down with Tami to learn more about her thoughts on the evolution of polycarbonate products within the horticulture industry.

Q&A with Tami Churchill Myers

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Q: What makes a good greenhouse covering?

A: Key characteristics that should be considered in selecting a greenhouse covering are: how much light is transmitted through the material, durability, insulation properties, ease of installation and replacement, material weight, fire ratings, product longevity, and cost.

Q: Why use LEXAN™ THERMOCLEAR™ 15 polycarbonate for a greenhouse glazing material?

A: LEXAN™ THERMOCLEAR™ 15 comes with a fifteen year warranty. This UV-protected polycarbonate sheet maintains its superior toughness in comparison to other thermoplastic glazing. Its advanced UV-protection prevents sheet discoloration, loss of light transmission, and loss of impact strength due to weathering. LEXAN™ THERMOCLEAR™ 15 polycarbonate coverings also have good hail damage resistance and excellent fire ratings, lowering insurance rates.

Q: Why is light diffusion an important consideration?

A: The use of 100% light diffused polycarbonate in the horticultural industry is quickly becoming the glazing panel of choice. The benefits of using light diffused polycarbonate sheets are being recognized by growers worldwide. Growers are becoming more aware of the "science of light" and how diffused light affects the overall environment and growth of plants.

[CLICK HERE TO READ FULL INTERVIEW](#)

Tami Churchill Myers is a recognized leader in the polycarbonate industry. She has been an active member of NAHSA (served on the Board of Directors twice), NGMA, IAPD and the NFBA (national and international trade organizations) and has published a number of articles about plastics/polycarbonate in several well-known trade publications.

LEXAN THERMOCLEAR is a trademark of SABIC.

corrugated polycarbonate | multiwall polycarbonate | PVC sheet & liner panels

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