COST EFFECTIVE UV PROTECTION FOR OUTDOOR APPLICATIONS

WITH OUR LEXAN™ UV FILM PLATFORM



LEXAN™ FILM

POLYVANTIS



Built to Protect.
Designed to Perform.
Priced to Deliver Value.

POLYVANTIS introduces the new LEXAN™ UV polycarbonate film platform, designed for customers who need reliable UV resistance and outdoor durability—without the added cost of a hard coat solution.

The LEXAN™ UV film platform is ideally suited for:

- Signage and nameplates
- Labels and graphics
- Decorative and functional overlays
- Protective films and covers

Customer Benefits

UV RESISTANCE
FOR OUTDOOR EXPOSURE WITHOUT HARD COAT COMPLEXITY

VERSATILE FORMING AND DESIGN FLEXIBILITY
TO SUPPORT CREATIVE APPLICATIONS

LONG LASTING WEATHERABILITY
TO HELP EXTEND PRODUCT SERVICE LIFE

OPTIMIZED COST POINT
TO IMPROVE TOTAL INSTALLED COST AND VALUE

HIGH OPTICAL CLARITY
FOR STRONG VISUAL APPEAL

EASY TO PRINT
FOR SCREEN OR DIGITAL PRINTING

Portfolio

Our UV platform portfolio features high-performance polycarbonate films available in a variety of textures, engineered for exceptional UV resistance and long-lasting durability.

Designed for demanding environments, these films deliver excellent high-temperature resistance, outstanding dimensional stability, and reliable printability—without the need for pretreatment. Ideal for multi-layer printed applications, this portfolio is well suited for overlays, premium labels, and in-mold decoration.

Compatible with screen-printing inks, these films enable vivid, high-quality graphics. Their robust mechanical performance ensures easy and efficient processing across a wide range of fabrication techniques, including thermoforming, embossing, die-cutting, hydro-forming, and bending.





AVAILABILITY

COMMON GRADES*	SURFACE STRUCTURE	GAUGES	WIDTHS
LEXAN UV8B35 Film	Matt / Textured	0.127-0.762 mm 0.005 – 0.030 inch	915, 1220, 1524 mm 36, 48, 60 inch
LEXAN UV8010 Film	Polished / Polished	0.127-0.762 mm 0.005 – 0.030 inch	915, 1220, 1524 mm 36, 48, 60 inch
LEXAN UV8A35 Film	Polished / Textured	0.127-0.762 mm 0.005 – 0.030 inch	915, 1220, 1524 mm 36, 48, 60 inch

* Other grades available on request, please contact your local POLYVANTIS representative.

POSITION IN LEXAN™ FILM PORTFOLIO

PROPERTIES	UNCOATED PC FILMS	UV FILM PLATFORM	HARD COATED FILMS
UV Resistance	**Low**	**Better**	**Best**
Thermoformability	✔	✔	✘
Cold Bend	✔	✔	✘
Printability	✔	✔	✔
Scratch Resistance	✘	✘	✔
Chemical Resistance	✘	✘	✔
Various Texture Offering	✔	✔	✔
Color Availability	✔	✔	✘



Customers benefit from the proven strength, consistency, and global support of LEXAN™ polycarbonate films, now expanded with a platform purpose built for outdoor applications where UV protection matters most.

As illustrated in the table, this platform offers a well-balanced combination of enhanced UV durability, mechanical robustness, and printability—positioning it as an excellent solution for applications requiring improved outdoor weatherability and long-lasting visual quality. In addition to the grades highlighted in this brochure, the UV platform is designed with flexibility and scalability in mind.

The portfolio can be expanded with additional textures, thicknesses, or performance variants to meet specific application or market needs.

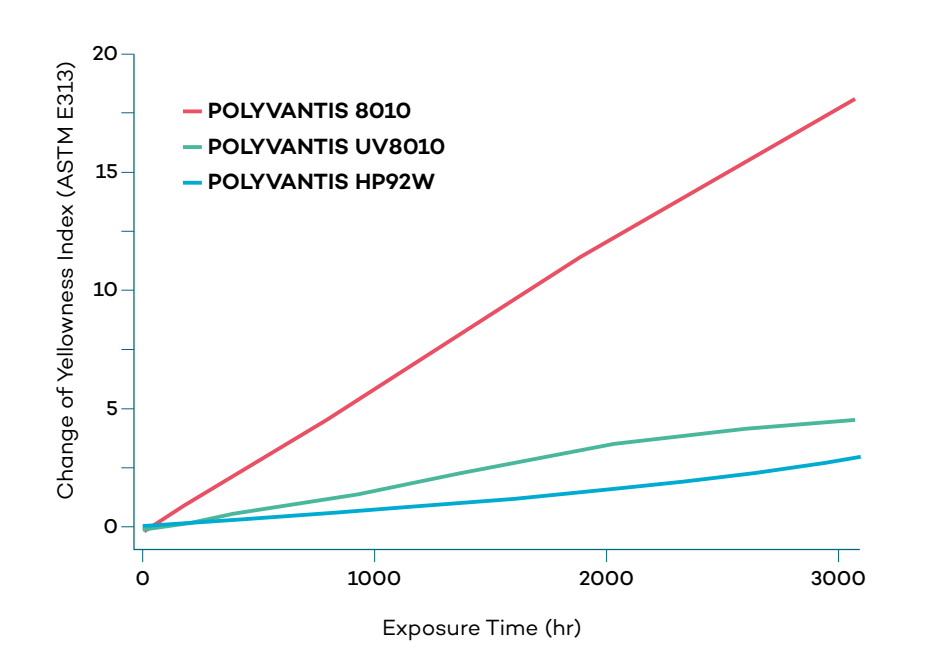
For further details, custom requests, or support in selecting the right film for your project, please contact your local sales representative or reach us directly at info.lexan@polyvantis.com.

Performance results

CHANGE OF YELLOWNESS INDEX TABLE VS. EXPOSURE TIME

Results demonstrate a **significant improvement** in **color stability** and **UV resistance** for UV-enhanced films.

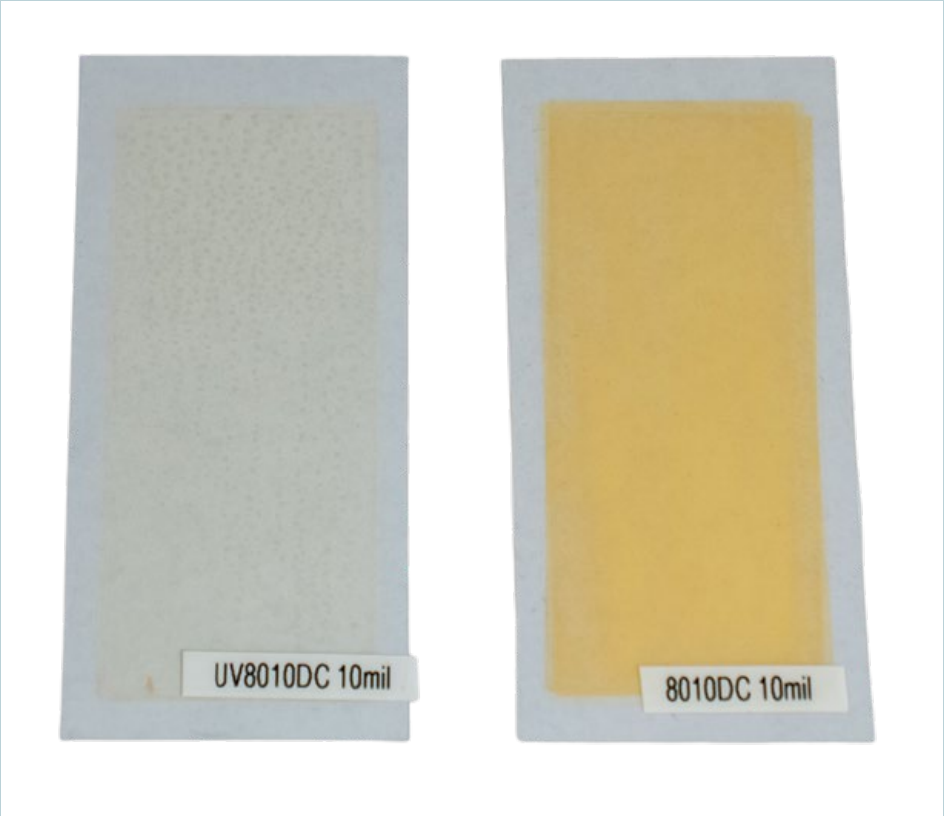
While performance is slightly below **HP92W films after 3,500 hours**, our UV films offer an excellent balance of **performance** and c**ost efficiency.**



ACCELERATING WEATHERING SAMPLE COMPARISON

These test results generally correspond to approximately 3 years of outdoor exposure, depending on geographical location and other environmental factors, actual outdoor performance may vary.

POLYVANTIS UV films demonstrate s**ignificantly reduced yellowing and color shift** compared to standard **LEXAN™ 8010 films.**



Test standard:
Both tests are based on Xenon Arc ASTM G155 weathering test cycle 1 after 4000 hours.
All samples are tested at 0.254mm thickness.



About POLYVANTIS

POLYVANTIS is a global, multi-material player with some of the most coveted and iconic brands in the industry – such as PLEXIGLAS® and ACRYLITE® for polymethylmethacrylate semi-finished products and LEXAN™ for polycarbonate sheets and films. With 15 production sites across the United States, Europe, Asia and Africa, we offer innovative products and solutions.

Our LEXAN™ UV Film platform can be manufactured and supplied from multiple regions worldwide, ensuring reliable availability and competitive lead times. This global production footprint not only provides cost-effective sourcing options but also supports more sustainable logistics by enabling regional supply, reducing transportation distances, and lowering overall environmental impact.

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