

Advanced ACRYLITE®, EUROPLEX® & LEXAN™ Films for Medical and Healthcare Solutions

POLYVANTIS



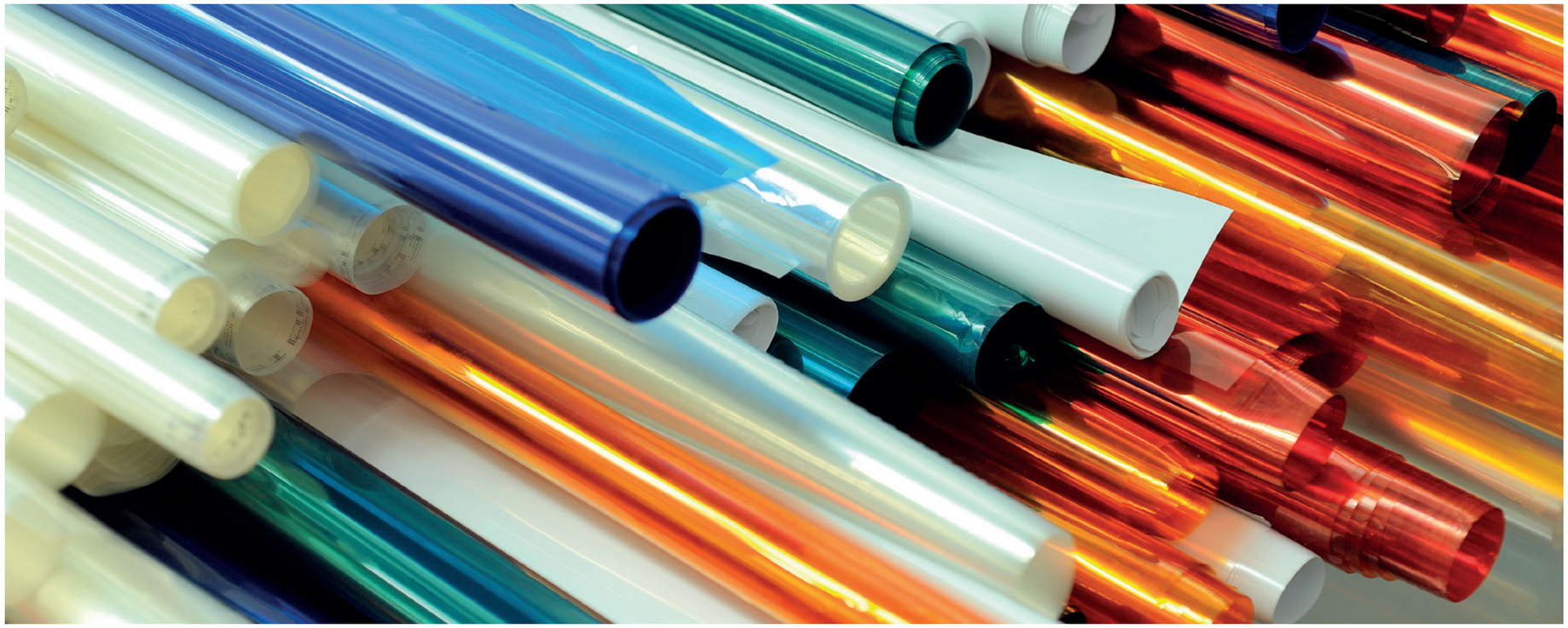
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1. Introduction

Built On Experience. Driven By Innovation.

With decades of expertise in acrylic and polycarbonate chemistry and in film engineering, POLYVANTIS delivers reliable products and services on a global scale. Clean-room environments, in-house customization, and tailored formats—from thickness and lamination to precision cutting—make POLYVANTIS uniquely positioned to support customers from prototype to commercialization.



2. Portfolio Overview

POLYVANTIS offers a wide product portfolio of LEXAN™, ACRYLITE® and EUROPLEX® films for medical and pharmaceutical applications.

Three distinct material families – polycarbonate (PC), polymethyl methacrylate (PMMA), and specialty polymers – cover the full range of requirements this industry places on film materials.

LEXAN™ Film is made from polycarbonate, an engineering thermoplastic that combines impact strength, dimensional stability, and transparency across a wide range of applications – from cleanroom environments to point-of-care devices. LEXAN™ films are UL certified and available in a broad range of surface finishes and gauges.

ACRYLITE® Film is based on polymethyl methacrylate, a well-established polymer in medical technology. With a strong track record in diagnostic and pharmaceutical environments, PMMA is valued for its optical clarity, biocompatibility, and processing reliability. ACRYLITE® PMMA films are available as smooth transparent, matte, colored, and monolayer solutions.

EUROPLEX® Film is designed for demanding applications where conventional materials reach their limits. The special grade EUROPLEX® COC film is based on cyclic olefin copolymer (COC) and combining outstanding biocompatibility with excellent chemical resistance, it is an ideal choice for microfluidic devices, life science applications, and other high-performance specialty solution.

All **POLYVANTIS Film** products are RoHS and REACH certified. Selected film grades are produced under controlled clean-environment conditions and delivered in custom-length rolls or as cut-to-size products.



3. Applications

Advanced film solutions for high-performance medical, industrial & safety applications

Across today's most demanding industries, precision, durability, and reliability are non-negotiable. From intuitive user interfaces to critical safety labels, optical components, and protective equipment, POLYVANTIS' portfolio of LEXAN™, ACRYLITE® and EUROPLEX® performance films delivers the material excellence that modern applications require. Engineered to meet stringent regulatory standards and real-world challenges, these films combine exceptional mechanical strength, optical clarity, chemical resistance, and design flexibility, which empower manufacturers to create products that perform flawlessly, look exceptional, and stand the test of time.

Whether enabling crisp graphics on control panels, ensuring long-lasting legibility on safety labels, enhancing optical performance in diagnostic devices, or providing fog-free visibility in protective shields, our films are designed to elevate every touchpoint. With a broad range of specialized grades, from high-impact polycarbonate to advanced acrylic and COC films, we support innovation across medical, industrial, and consumer environments.

Explore how our materials bring value to each application area, help you design with confidence, manufacture with efficiency, and deliver products that inspire trust.



3.1 Control Panels & Overlays
Powered by LEXAN™ Performance Films

Elevate every touchpoint. LEXAN™ 8010(Q), LEXAN™ 8010 SHT, and LEXAN™ 8030 films bring next-level durability and visual refinement to modern user interfaces. Designed for brands that demand both style and strength, these high-performance polycarbonate films deliver crisp graphics, premium surface quality, and long-lasting protection. These are perfect for keypads, touch interfaces, and membrane switches that need to look great and perform flawlessly.

Control panels & overlays for

- Keypads for medical beds
- Touch Interfaces
- Membrane Switches

Key benefits

Chemical resistance and weathering (ITR-PC Film)

Easy formability

True color reproduction

Increased pencil hardness

Related products

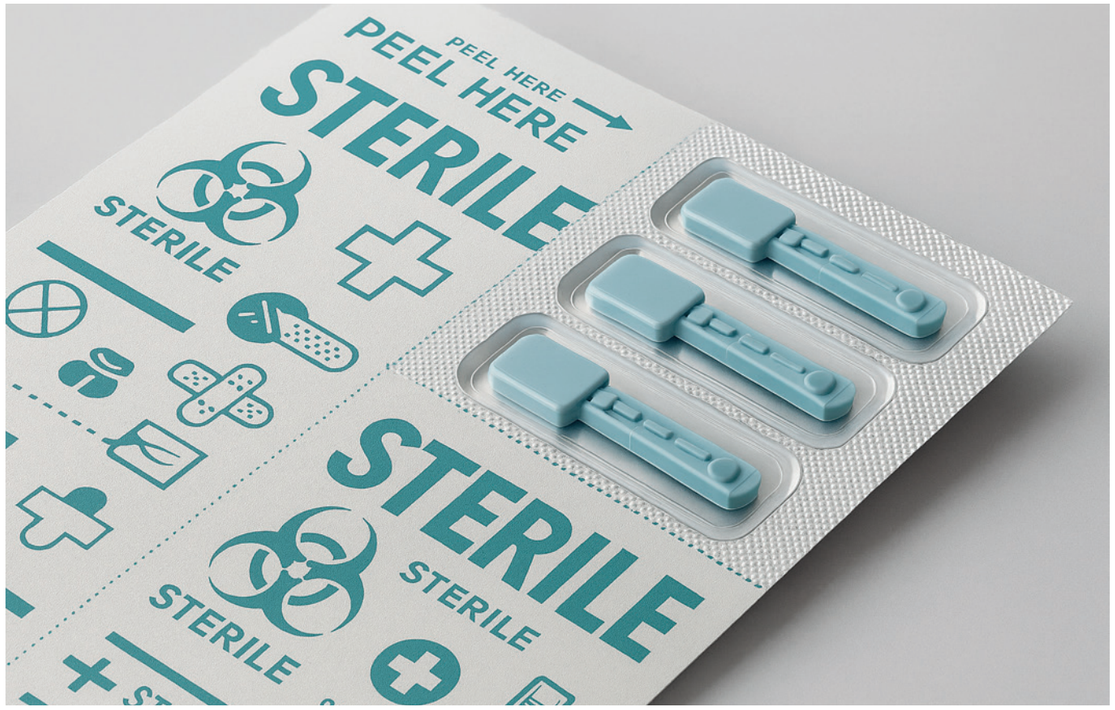
Film grade	Key features	Gauge availability
LEXAN™ 8010Q	Standard clear polish/polish True color reproduction	100–750 µm 4–30 mil
LEXAN™ 8010SHT (sheeted)	Clear polished sheeted film Q-type for best optical quality & stress control	500–1200 µm 20–40 mil
LEXAN™ 8030	Blocking UVA and UV-B wavelengths Improved gauge control	175–375 µm 3–15 mil

LEXAN™ 8010Q polycarbonate film is a transparent optical optically transparent with a polished finished at on both sides,, offers excellent clarity and optical quality in all thickness, high heat resistance, and superior dimension stability for graphics art applications. Derived from one of the world's toughest polymers, LEXAN™ 8010Q film also provides a high gloss surface finish while meeting additional requirement for gauge control and flatness.

LEXAN™ 8030 polycarbonate film offers excellent clarity in all thicknesses, high heat resistance, and superior dimensional stability for graphic art applications. LEXAN™ 8030 film also provides a high gloss surface finish while meeting additional requirements for added UV stability and blocking of UV-A and UV-B wavelengths. LEXAN™ 8030 film can be manufactured in double and triple roll sizes and with different maskings such as DC/DE or TC/TE.

LEXAN™ 8010SHT polycarbonate sheeted film is a transparent optical with polished finished at both sides, offers excellent clarity and optical quality in all thickness, high heat resistance, and superior dimension stability for graphics art applications. LEXAN™ 8010 also provides a high gloss surface finish while meeting additional requirement for gauge control and flatness.





3.2 Labels

3.2.1 Identification & Instruction Labels

Durable, high-clarity films for identification & instruction labels

Clear instructions are essential in medical and technical environments, where every label must remain legible, durable, and compliant throughout the product's lifecycle. For device branding, usage instructions, and regulatory markings, LEXAN™ 8B45, LEXAN™ 8B35, and LEXAN™ 8010 films provide the robust performance needed to ensure information stays visible and intact. These high-quality polycarbonate films offer outstanding dimensional stability, excellent impact resistance, and effortless formability, what make them ideal for labels that must withstand handling, cleaning, and long-term use. With superior printability and strong resistance to scratching and wear, they deliver crisp graphics and reliable readability in even the most demanding applications.

- Device branding
- Usage instructions
- Compliance markings

Key benefits

Excellent dimensional stability

High impact resistance

Ease of thermoforming, hydroforming, and bending

Ease of embossing and die-cutting

Scratch and wear resistance on textured sides and mar resistance on polished side

Printability without pre-treatment

Film grade	Surface property	Gauge availability
LEXAN™ 8B35	Matte/velvet	75–500 µm 3–20 mil
LEXAN™ 8B45	Matte/velvet	175–750 µm 3–20 mil
LEXAN™ 8010MC	Polished	125–750 µm 5–25 mil

LEXAN™ 8B35 is a one side velvet, one side matte transparent polycarbonate film. It offers high temperature resistance, excellent dimensional stability, as well as good printability without pretreatment making it very suitable for multi-layer printing such as overlays, floor graphics, high-performance labels and in-mould decoration. It can be screen printed using traditional solvent based or water-based inks, as well as UV or infrared drying inks and offers ease of processing for thermoforming, embossing, die-cutting, hydroforming and bending. The velvet texture offers mar resitsance, and can be used over light-emitting devices (LEDs).

LEXAN™ 8B45 polycarbonate film complies with FDA/NSF regulations and meets USP-VI criteria. It offers high heat and ultra-low temperature resistance, radiation stability, clarity, thermoformability and autoclave stability to meet sterile medical packaging requirements. Application includes packaging material that can survive low temperatures of -70 °C for up to 6 months and maintain mechanical integrity. These materials are easily processed with typical forming and die-cutting equipment.

LEXAN™ 8010MC polycarbonate film offers excellent clarity in all thicknesses, high heat resistance, and superior dimensional stability for graphic art applications. LEXAN™ 8010MC provides a high gloss finish. Additional enhancements allow for improved gauge control.

Texture guide

Texture	
Matte/fine matte	Good printing surface. Not as smooth but offers increased scratch resistance compared to polished grade. It offers wet-out-windows capability for automotive display applications.
Matte light diffuser	Hides filaments and eliminates "hot spots" in back-lit applications. The preffered finish for "dead front" graphics. Offers reduced surface reflection and gloss.
Velvet	Hides scratches, fingerprints and marring for heavy-use applications. Also acts as a diffuser for "windowed" or back-lit applications.
Suede	Excellent in very heavy-wear applications. Resists abrasion while maintaing its attractive appearance.
Brushed	Unique brushed texture provides metallic appearance



3.2.2 Safety & Warning Labels

Films for durable and for ultra-destructible labels that ensure safe usage of medical devices and pharmaceutical products.

Safety and warning labels in medical and pharmaceutical environments must remain legible, compliant, and intact throughout the entire product lifecycle, often under demanding conditions including chemical exposure, sterilization, and long-term UV stress. POLYVANTIS offers film solutions for both durable labels designed to last, and ultra-destructible labels engineered to reveal any tampering attempt. While both LEXAN™ and ACRYLITE® films cover the durable segment, ACRYLITE® films also available for ultra-destructible applications.

3.2.2.1 Durable Labels

Reliable films for safety and warning labels that stay legible and intact throughout the product lifecycle.

Durable safety and warning labels must withstand cleaning agents, mechanical stress, and long-term exposure without losing legibility or adhesion. POLYVANTIS offers two complementary film platforms for this application: polycarbonate-based LEXAN™ films and acrylic-based ACRYLITE® films. Both bring distinct material properties and advantages to the label construction.

LEXAN™ Films

Polycarbonate film is a proven choice for high-performance safety and warning labels in medical environments. The combination of dimensional stability, impact resistance, and surface robustness makes it well-suited for labels that must withstand repeated handling, cleaning, and mechanical stress. LEXAN™ films can be printed without pre-treatment and processed using standard converting methods.

- Hazard warnings
- Sterilization instructions

Key benefits

- **Excellent dimensional stability**
- **High impact resistance**
- **Ease of thermoforming, hydroforming, and bending**
- **Ease of embossing and die-cutting**
- **Scratch and wear resistance on textured sides and mar resistance on polished side**
- **Printability without pre-treatment**

Related products

Film grade	Surface property	Gauge availability
LEXAN™ 8B35	Matte/velvet	75–500 µm 3–20 mil
LEXAN™ 8B45	Matte/velvet	175–750 µm 3–20 mil
LEXAN™ 8010MC	Gloss	125–750 µm 5–25 mil

LEXAN™ 8B35 is a one side velvet, one side matte transparent polycarbonate film. It offers high temperature resistance, excellent dimensional stability, as well as good printability without pretreatment making it very suitable for multi-layer printing such as overlays, floor graphics, high-performance labels and in-mould decoration. It can be screen printed using traditional solvent based or water-based inks, as well as UV or infrared drying inks and offers ease of processing for thermoforming, embossing, die-cutting, hydroforming and bending. The velvet texture offers mar resitsance, and can be used over light-emitting devices (LEDs).

LEXAN™ 8B45 polycarbonate film complies with FDA/NSF regulations and meets USP-VI criteria. It offers high heat and ultra-low temperature resistance, radiation stability, clarity, thermoformability and autoclave stability to meet sterile medical packaging requirements. Application includes packaging material that can survive low temperatures of -70 °C for up to 6 months and maintain mechanical integrity. These materials are easily processed with typical forming and die-cutting equipment.

LEXAN™ 8010MC polycarbonate film offers excellent clarity in all thicknesses, high heat resistance, and superior dimensional stability for graphic art applications. LEXAN™ 8010MC provides a high gloss finish. Additional enhancements allow for improved gauge control.

ACRYLITE® Films

ACRYLITE® film grades 0F072, 0F080, both clear and WF002 (white), are premium UV-resistant acrylic films engineered for outstanding printed labels and durable labels,

- Sterilization instructions
- Irradiation indicator labels
- Overlaminate for printed substrates
- Identity labels and brand identification labels
- Warning labels
- Compliance labels
- Instructional labels

Manufactured from 100% acrylic resin and free from halogens, these films offer exceptional resistance to UV radiation, weathering, and aging. Their excellent printability enables brilliant, long-lasting graphics without the need for an additional protective overlaminate. In addition to serving as high-quality print media, ACRYLITE® films can also be used as protective overlaminates shielding printed surfaces from UV-induced fading and environmental wear.

Thanks to their superior optic and surface quality, ACRYLITE® PMMA films support a sophisticated “no-label” look, creating seamless, high-end designs with outstanding visual appeal.

Key benefits

No halogens

Excellent UV and aging stability

Outstanding printing performance without pre-treatment

Related products

Film grade	Surface property	Gauge availability
ACRYLITE® 0F072	Clear, glossy	75 µm
ACRYLITE® 0F080	Clear, glossy	50 µm
ACRYLITE® WF002	White opaque, glossy	50 µm

3.2.2.2 Ultra-destructible, Durable Security Labels

Ultra-destructible films serve two different purposes: they make it easier to open packages, and they are used to immediately reveal any unauthorized opening or tampering.

Counterfeit drugs are in circulation worldwide. They pose a significant health risk if they contain inferior, ineffective, or inaccurately dosed ingredients. Counterfeits also cause considerable damage to the trustworthiness of pharmaceutical companies and brands. Equipping medical packaging with tamper-evident security labels on packaging is an effective way to protect high-quality and safe original preparations.

The ability to adjust the frangibility of ACRYLITE® films makes it possible to manufacture special ultra-destructible films withstand industrial demands throughout storage, transport, and distribution, and maintain their integrity until the moment unauthorized tampering occurs. Typical applications as

- Sealing labels for pharmaceutical packaging
- Security labels for authentication and anti-counterfeiting protection
- And other tamper-evident labels

POLYVANTIS’ portfolio of ACRYLITE® PMMA films with different destructibility levels ranges from transparent films with a glossy surface on both sides to white opaque films with a matte finish on one side. An additional feature is a protective masking layer, which enhances process safety during further processing.



Key benefits

Ultra-distructible

No halogens

Suitable for use in food-contact applications

Excellent UV and aging stability

Outstanding printing performance without pre-treatment

Related products

Film grade	Key features	Gauge availability
ACRYLITE® 0F079	Clear, glossy, Food-contact approved, ultra-destructible	50 µm
ACRYLITE® WF011	White, one-side matte, ultra-destructible	50 µm

ACRYLITE® 0F079 is a transparent ultra-destructible PMMA film with a smooth surface. Mechanical property profile: Tensile stress at yield of 72 MPa and nominal stress at break < 15%. Food-contact approved in accordance with the requirements of EU 10/2011.

ACRYLITE® WF011 is an opaque white ultra-destructible PMMA film with a matte finish on one side. Mechanical property profile: No yield under tensile stress and nominal stress at break < 9%. Food-contact approved according to the requirements of EU 10/2011.

Both ACRYLITE® 0F079 and ACRYLITE® WF011 perform very well in roll-to-roll processing technologies such as printing, cutting and PSA/Liner lamination. The films can be easily cut to size or die cut.

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3.3 Lenses & Light Guides

Optical films designed for precision in medical imaging and diagnostics

In medical imaging and diagnostic devices, optical clarity and color accuracy are essential for reliable results. Our advanced LEXAN™ film solutions deliver the high-performance optical properties required for lenses, light guides, and illuminated interface components. Engineered for true color reproduction and exceptional depth effects—even in second-surface printing—these films provide the visual fidelity needed for accurate readings and intuitive device interaction. With FDA/USP Class VI–compliant options, outstanding chemical resistance, and easy formability, they offer a robust, versatile platform for creating durable, high-precision optical elements that perform consistently in demanding clinical environments..

- Medical imaging
- Diagnostic devices

Key benefits

True color reproduction

Excellent depth effect with no loss of vividness in the second surfaceprinting

FDA/USP Class VI compliance (LEXAN™ 8040 film)

Easy formability

Increased pencil hardness

Related products

Film grade	Key features	Gauge availability
LEXAN™ 8040	True color reproduction High heat resistance FDA approved, clear polish/polish	175–750 µm 7–30 mil

LEXAN™ 8040 polycarbonate film complies with FDA regulations and meets USP-VI criteria. It offers high heat resistance, radiation stability, clarity, thermoformability, and autoclave stability to meet sterile medical packaging requirements. Compatible lid stock – TYVEK2 or medical grade paper is available from approved suppliers

Sterilization performance

Technique	Conditions
Autoclave	265 °F (129 °C) single cycle
Gamma radiation	5 Mrads Exposure
E-beam radiation	3.3 Mrads at 175 kV
Ethylene Oxide	All common concentrations





3.4 Protective Shields & Barriers

Impact modified films for extra protection with crystal-clear sight, and maximum comfort.

People in the healthcare, manufacturing and packing industries often use security goggles and face shield plastics for more extended periods and see matters. They need to complete visibility from their PPE (Personal Protective Equipment) to perform their tasks safely, even in high-humidity environments. POLYVANTIS' LEXAN™ film and sheet & ACRYLITE® PMMA film offer abrasion resistance, and optical clarity.

This means that the face shields stay clear in high-humidity environments even when sudden temperature changes occur. In high-humidity environments, time-to-fog makes a difference. This product can ensure optimum optical clarity over extended periods, allowing the users of face shields and other transparent safety equipment to concentrate on their jobs safely without being impaired by fog.

Key benefits

Anti-fog: Maintains clarity with no flash-over (fogging)

High impact strength: Virtually unbreakable and resistant to abra-sion

Excellent optical quality: Light transmission > 88% in all thicknesses

Ease of processing: Easy to die cut with debris

Chemical resistance: Withstands repeated cleaning

Printable: For customized design and aesthetics

Related products

Film grade	Key features	Gauge availability
LEXAN™ 8010MC	Polished Excellent clarity High heat resistance Superior dimensional stability	100–750 µm 4–30 mil
LEXAN™ SL2030V Sheet	Polished Meeting EN170 norm Excellent optical performance Outstanding impact resistance	0.75–2 mm 30–79 mil
LEXAN™ 8B45	Complies with FDA/NSF regulations Meets USP-VI criteria High heat and ultra-low temperature resistance	75-500 µm 3–20 mil
ACRYLITE® 99524	Glossy and smooth surface High light transmission Easy to process and cut	175, 250, 375, 500, 750 µm

LEXAN™ 8010MC polycarbonate film offers excellent clarity in all thicknesses, high heat resistance, and superior dimensional stability for graphic art applications. Derived from one of the world's toughest polymers, LEXAN™ 8010MC provides a high gloss finish. Additional enhancements allow for improved gauge control.

LEXAN™ SL2030V is a UV-stabilized, transparent, polycarbonate sheet. The grade is produced with extra UV absorbers and specifically developed for the eye protection industry to meet the EN170 norm. In addition to excellent optical performance, it offers outstanding impact resistance, good stiffness and strength and ease of processing. Typical applications are: motor helmet visors, industrial visors and goggles, sport goggles, police helmet visors and sunglasses.

Face shields made with impact-modified ACRYLITE® film are robust yet lightweight, comfortable to wear and provide optimum visual comfort – also for people with glasses.

ACRYLITE® 99524 is made of impact-modified polymethyl methacrylate (PMMA). Thanks to its luminous transmittance of over 91%, it offers outstanding transparency and optical properties. This film product can also be produced in various transparent colors on request.





3.5 Diagnostic Consumables

High-performance films for reliable diagnostic consumables

Accurate diagnostics depend on materials that deliver consistency, stability, and flawless performance at micro-scale. The LEXAN™ high-performance film portfolio, including grades such as HP92STY, HPxxS, HPxxW, HPxxX, HPxxE & HP92AF films,, provides the clarity, chemical resistance, and dimensional precision required for advanced test strips and sensor films. Engineered for sensitive detection environments, these films offer excellent printability, robust mechanical strength, and reliable processing characteristics, ensuring that each diagnostic component performs with the accuracy and repeatability essential for modern healthcare and laboratory applications.

- Test strips
- Sensor films

Key benefits

Excellent abrasion resistance and flexibility

Resistance to abusive cleaners and chemicals

Improved hardness versus uncoated films

Variable gloss and printability

LEXAN™ high performance coated films offer unique solutions for scratch resistance, weatherability, anti-glare and anti-fog applications. These films have excellent resistance to abusive cleaners, chemicals and UV, provide excellent clarity of graphics and light diffusion as well as ease of printing and die cutting.

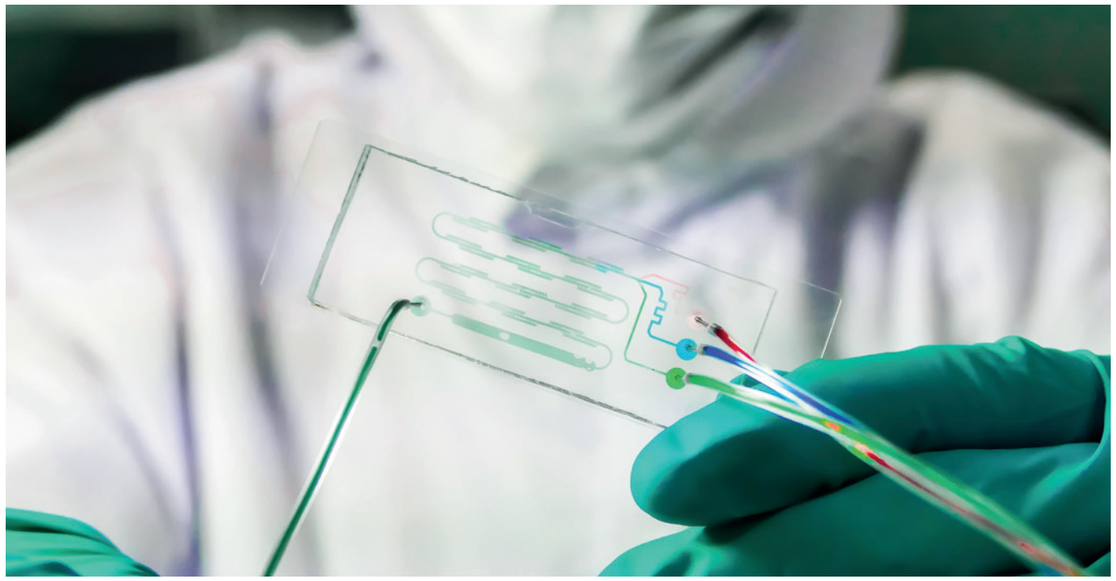
Related products

Film grade	Key features	Gauge availability
LEXAN™ HPxxS	Abrasion, resistance First surface printable	175–750 µm 7–30 mil
LEXAN™ HPxxW	UV Resistance Chemical resistance	175–750 µm 7–30 mil
LEXAN™ HPxxX	UV Resistance Chemical resistance First surface printable	175–750 µm 7–30 mil
LEXAN™ HPxxE	Abrasion resistance Flexible	175–750 µm 7–30 mil
LEXAN™ HP92AF	Anti-fog 1 side coated film	175–750 µm 7–30 mil

xx in the grade denotes the gloss or surface finish on the coated side.
The attached table highlights the key features of the coated film grades with the available gloss/masking configurations.

Surface finish guide

Film grade	Finish	Description
92 gloss	Polished	High gloss, smooth, wet look finish
60 gloss	Very fine matte	Low glare – not as smooth as polished
40 gloss	Fine matte	Lower surface reflection and gloss
12 gloss	Matte	Lowest surface reflection and gloss



3.6 Lab-on-Chip & Microfluidic Applications

High-performance films powering rapid point-of-care testing, lab-on-a-chip systems, and advanced biochemical analysis.

Microfluidics is reshaping the future of healthcare and diagnostics. To perform reliably, these devices require exceptional optical clarity for accurate readouts, chemical and thermal resistance for stability, and straightforward processing for efficient production.

POLYVANTIS addresses these needs through its portfolio of ACRYLITE® PMMA and EUROPLEX® Cyclic Olefin Copolymer (COC) films, helping developers achieve high-performance lab-on-chip solutions.

ACRYLITE® PMMA film is typically selected when surface-driven flow and processing simplicity are important, such as in Capillary-driven devices and Point-of-care systems.

EUROPLEX® COC-films offer a unique combination of high light transmission, low autofluorescence, low water absorption, and excellent barrier properties, making them ideal for sensitive analytical applications, as PCR-based microfluidic systems and fluorescence-based diagnostics. In addition, EUROPLEX® COC films comply with the European Pharmacopoeia, Monograph 3.1.3 “Polyolefins”, supporting their use in regulated healthcare and life science environments.

For microfluidic devices, a controlled environment is essential. POLYVANTIS provides production under carefully managed conditions to ensure consistent and reliable quality.

Key benefits

High optical clarity

Required surface characteristics

Stable thermal behavior

Excellent Chemical Compatibility

Related products

Film grade	Key features	Gauge availability
ACRYLITE® 0F301	Pure PMMA film UV transmittance > 90% (315 nm) Tg 110 °C	80, 200, 375, 500 µm
ACRYLITE® 0F302	Impact modified PMMA film UV transmittance ≈ 12% (315 nm) Tg 111 °C	175, 250, 375, 500 µm
EUROPLEX® COC 0F304	UV transmittance > 88% Tg 78 °C	80, 125, 140, 240 µm
EUROPLEX® COC 0F305	UV transmittance > 85% Tg 142 °C	80, 125, 140, 240 µm
EUROPLEX® COC 0F308	Highly flexible COC film on PET carrier film Low Tg	60, 90, 100 µm
EUROPLEX® COC 0F309	Coextruded 2-layer film UV transmittance > 85% Tg 78 °C and 142 °C	240 µm (incl. 10 µm coex layer) 125 µm (incl. 20 µm coex layer)

Tg = Glass transition temperature

ACRYLITE® 0F301 and 0F302 provide excellent light transmission and brilliance due to low intrinsic absorption. Both PMMA films feature the highest surface energy among polymers used in microfluidics, enabling laminar flow in microchannels. Thanks to their very good biocompatibility, they can be used in diagnostic applications.

EUROPLEX® COC 0F304 and 0F305 provide excellent light transmission and brilliance with low autofluorescence. Both COC films exhibit excellent acid and base resistance as well as outstanding chemical resistance to solvents, including acetone, ethanol, isopropanol, and ethyl acetate. Additionally, both films have low water absorption.

EUROPLEX® COC 0F305 is particularly suitable for applications with polymerase chain reactions (PCR).

EUROPLEX® COC 0F304 and 0F305 are available with glass transition temperatures that meet diverse requirements in thermal stability.

EUROPLEX® COC 0F308 and 0F309 combine excellent barrier properties against water vapor and oxygen with high optical clarity, making them ideal for sensitive analytical applications. In addition, they are compatible with gamma and electron beam sterilization, ensuring reliable performance in demanding microfluidic environments.

EUROPLEX® COC 0F308 is based on the elastomer E140 and is ideally suited for microfluidic applications requiring flexibility combined with outstanding optical performance.

EUROPLEX® COC 0F309 is coextruded film solution specifically engineered for microfluidic systems that demand strong sealing performance and high thermal resistance. An integrated thin sealing layer supports chip assembly at reduced temperatures while maintaining stability under elevated application conditions.

ACRYLITE® PMMA and EUROPLEX® COC films can be easily processed by laser cutting, die cutting and bonding processes, such as thermal-, solvent bonding, laser welding and sonic welding. Both grades are biocompatible. EUROPLEX® COC films comply with the European Pharmacopoeia, Monograph 3.1.3 “Polyolefins”.



3.7 Medical Packaging

Securely and cleanly sealed: Films with special properties for medical packaging.

In medical packaging, safety, precision, and reliability are essential. POLYVANTIS offers a portfolio of advanced thermoplastic films made of PMMA and PC for customized sealing solutions, packaging and specialized medical components that ensures product visibility and protection, POLYVANTIS materials help manufacturers achieve the highest standards of quality, efficiency, and patient safety.

ACRYLITE® PMMA films

For precision-formed blister packs, POLYVANTIS offers transparent and opaque white ACRYLITE® films. These food-contact-approved films offer exceptional optical quality, and reliable processability. The mechanical properties of ACRYLITE® films can be modified, which enables the production of films for applications that require destructible sealing or packaging.

Key benefits

Ultra-distructible

No plasticizers or halogens

Suitable for use in food-contact applications

Related products

Film grade	Key features	Gauge availability
ACRYLITE® 0F079	Clear, glossy Ultra-destructible	50 µm
ACRYLITE® WF011	White, matte Ultra-destructible	50 µm

ACRYLITE® 0F079 Transparent ultra-destructible film with excellent optical properties and a smooth surface on both sides.

ACRYLITE® WF011 Opaque white ultra-destructible film with a matte, paper-like surface finish on one side.

Both ACRYLITE® films are food-contact approved and meet the requirements of EU 10/2011 – e.g. safe to use in packaging or layers that need to be torn open easily, such as medicine blister packs when tablets come into contact with the material when being pressed out of the blister.

LEXAN™ Films

Related products

Film grade	Key features	Gauge availability
LEXAN™ SL2030R	Impact resistance Good stiffness and strength Ease of processing	750–1500 µm
LEXAN™ 8010	Glossy Heat resistance Dimensional stability	125–750 µm

LEXAN™ SL2030R is a UV-stabilized, transparent, polycarbonate grade, produced on rolls. The grade is specifically developed for the eye protection industry and medical packaging. In addition to excellent optical performance, it offers outstanding impact resistance, good stiffness and strength and ease of processing.

LEXAN™ 8010 polycarbonate film offers excellent clarity in all thicknesses, high heat resistance, and superior dimensional stability for graphic art applications and medical packaging.

4. Our Service & Global Offering

POLYVANTIS is committed to its customers around the world with a portfolio of Film & Sheet materials, application support and worldwide services

We are a world-leading multi-material player for semi-finished plastic products. Our customers from a multitude of different industries can choose from an extensive range of high-quality products provided by a single source, including leading brands such as LEXAN™ film and sheet from polycarbonate resins and ACRYLITE® and ACRYLITE® for PMMA semi-finished products.

Our name stands for the variety of products we offer, and our quest to secure progress in polymers and related materials. POLYVANTIS offers innovative materials for different needs. The portfolio ranges from solid plastic sheets and films for a multitude of areas of application, through specialty products with custom properties, all the way up to the matching adhesives and auxiliaries.

The POLYVANTIS umbrella unites strong plastics brands. With 15 production sites including 6 film production sites across the United States, Europe, Asia and Africa, we offer innovative products and solutions for segments such as building and construction, transportation, aircraft & railway interiors, electrical engineering and electronics, automotive manufacturing and the home and garden sectors.

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POLYVANTIS Locations



POLYVANTIS
www.polyvantis.com

Semi-finished polymethyl methacrylate (PMMA) products from POLYVANTIS are sold on the European, Asian, African and Australian continents under the registered trademark PLEXIGLAS®, in the Americas under the registered trademark ACRYLITE®, both owned by Röhm GmbH, Darmstadt, or its affiliates.

Polycarbonate Film & Sheet by POLYVANTIS are sold globally under the registered trademark of LEXAN™ Film & Sheet.

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.