



Platilon® Dureflex® Makrofol®

Increased safety and durability for the construction industry begins with the right choice of films.



Protecting your property with our solutions

Platilon® and Dureflex® TPU as well as Makrofol® PC films for the construction industry.

Covestro TPU and PC films offer a wide range of products that add value to construction applications. Our tailor-made films have been long proven in the construction industry and are distinguished by their high quality and applicability. Our customers benefit from our solutions as we help them maximize their product potential with our vast industry expertise.



Pipe sanitation

- Platilon® TPU films can be customized for cured-in-place-pipe (CIPP) relining.
- High flexibility for adaptation to diameter changes during installation.
- Tear strength and puncture resistance avoid resin leakage.
- Adhesive and thermal bonding options are available.
- Reinforcement tapes for seam protection.



Roof underlining

- Platilon® TPU films offer excellent breathability, which enables laminates to protect insulation against water and mechanical impact.
- Moldable to adapt to roof valleys and corners.
- Ensure high resistance to stretching and support transportation of moisture out of the insulation to avoid damage.



Insulation, corner tiles, and pipe collars

- Wet room sealing materials can be produced by using Platilon® TPU films.
- Lightweight, thin, sealable, and elastic.
- TPU films can be used for both under tile corner sealing laminates and under tile pipe sealing laminates.



Sun shading and awnings

- Platilon® TPU films offer darkening or blackout effects for shade laminates.
- Adhesive and thermal bonding options are available.
- Improved surface properties such as haptics, stiffness, and weight of curtains.
- Available in flame-retardant and non-flame-retardant forms.



Security glazing for doors and windows

- Dureflex® is a self-priming aliphatic thermoplastic polyurethane film with a low modulus.
- Offers a wide range of temperature resistance in lamination, weathering, and yellowing from UV exposure for consistently high optical quality.
- Suitable for retail kiosks, anti-vandal and ballistic glazing, security glass for zoos, prisons, government and military settings.



Light management

- Makrofol® PC films are designed to optimize LED lighting and offer flexibility of design.
- Wide range of diffusion levels, high impact strength, and excellent temperature resistance for optimized lighting solutions.
- Superior strength allows the use of thinner films while still achieving the desired light transmission.

Covestro films can be customized for individual purposes and tailor-made solutions for unlimited applications to create distinctive films for the benefit of our customers.

Processability of TPU and PC films

Our TPU films are easy to handle for a wide range of processing technologies:

- Heat lamination, flame-bonding, flat-bed lamination, pressure calendaring
- Infra-red systems
- Ultrasonic, thermal impulse, and high-frequency welding
- Coating and bonding with adhesives
- Thermoforming and deep drawing
- Back-foaming
- Autoclaving and vacuum bagging

Our PC films provide added value:

- Versatility, customized solutions
- Tough and elastic over a wide temperature range
- Allow for maximum design freedom and high-quality printing
- Good optical and thermal properties
- Resistant to abrasion, weathering, and chemicals

Product overview

Grades	Thickness	Application examples
Platilon® U 9007	25 – 300 µm	Pipe sanitation
Platilon® U 9122	25 – 300 µm	Pipe sanitation
Platilon® U 4281AU	25 – 1000 µm	Roof underlining
Platilon® U 4201AU	25 – 1000 µm	Insulation, corner tiles
Platilon® BO 9090X	80 µm	Sun shading, awnings
Dureflex® A4700	380 – 1270 µm	Security glazing
Makrofol® LM243	150 µm	Light management
Makrofol® LM228	300 µm	Light management
Makrofol® LM309 / LM905	300 – 500 µm	Light management

Looking for alternative partially bio-based films or reprocessed material solutions? **Please contact us or our regional sales representative** for further inquiries or samples.



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