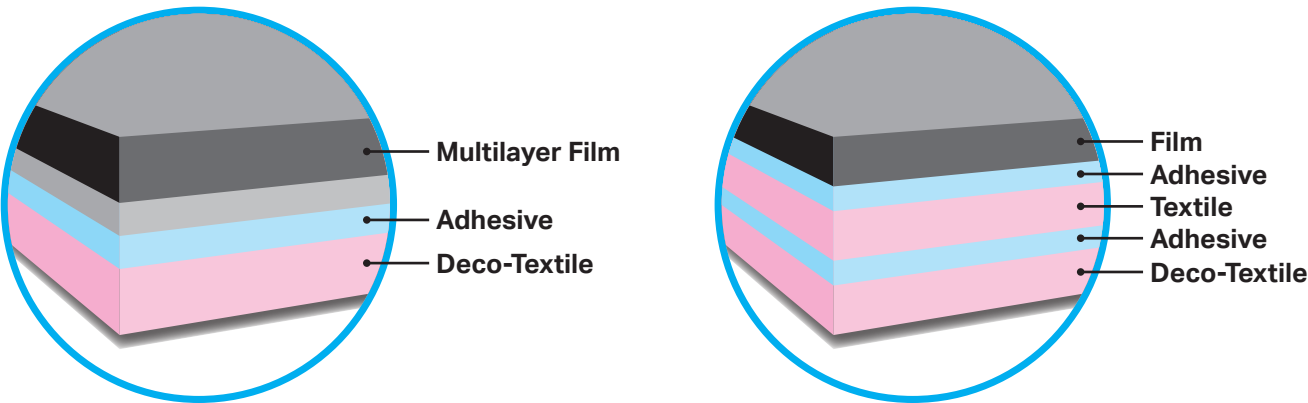


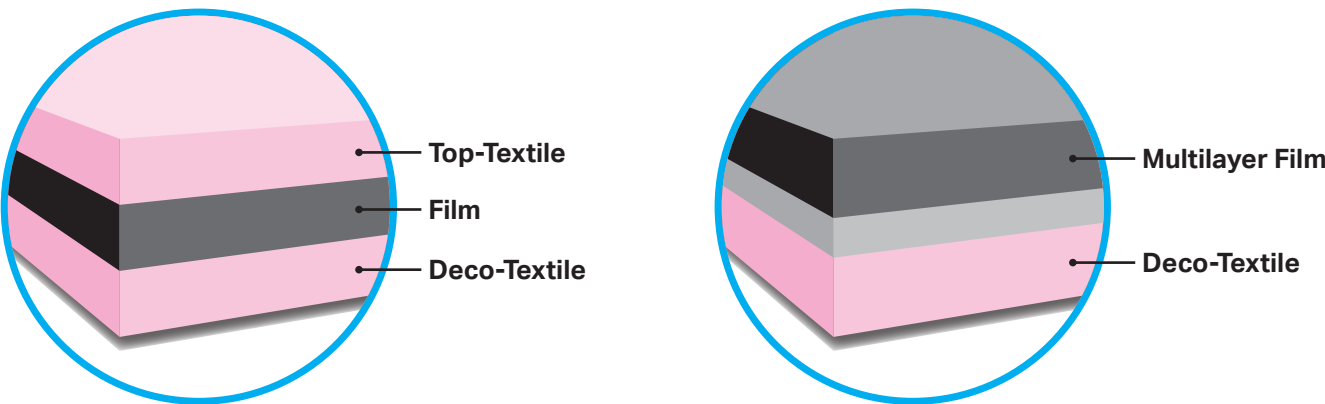
Customized solutions for your purposes

To develop solutions and enhance your desirable specific application, Covestro offers customized solutions for all purposes. Regardless of a black out product in the automotive sector or in the construction industry, our experts will find the best solution for you. Based on your individual requirements drawn from testing the end product’s flame retardancy, we also offer tailor-made products to ensure FR standards. With flexible and innovative solutions which go beyond the demonstrated applications below, we consider ourselves as a provider who generates high-value customized films solutions together with you.

Adhesive lamination



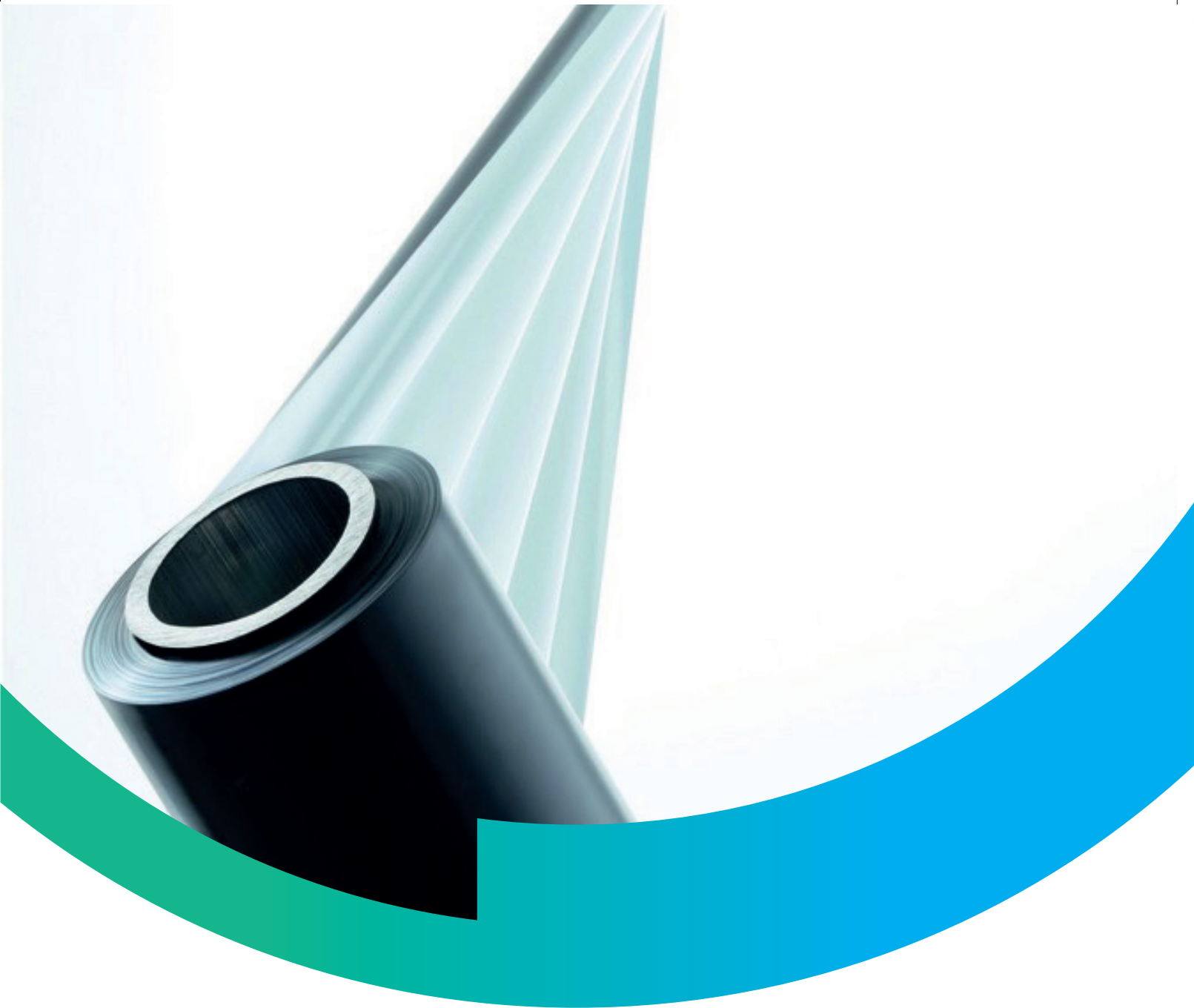
Thermo lamination



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Platilon® Dureflex®

SHADING FILMS FOR
SUNLIGHT MANAGEMENT.
WHY NOT?



Thermoplastic polyurethanes are high-tech materials with a unique combination of versatile properties

TPU bridges the gap between hard thermoplastics and rubber. It can be deformed under tensile load, yet still return back to its original shape afterwards. Thanks to its molecular structure, TPU can be stretched when heated, and melted and molded all over again. These soft and elastic films are easily laminated to fabric, manage light, save weight and decrease volume. Our portfolio of TPU films includes a variety of Dureflex® and Platilon® product grades. With our multilayer blown film capability, we can combine the attributes of different types of TPU along with other polymer films.



AUTOMOTIVE

Adhesive film solutions for convertible roofs, blinds, seat covers and further interior applications



TEXTILES

Adhesive film solutions for sun and light protection, such as beach flags



BUILDINGS

Adhesive film solutions add value for different types of blinds, awnings and curtains

Shading films for blinds, awnings and curtains

For shading applications, Covestro offers a range of TPU film solutions to meet their special requirements. Darkening effects are achieved by using shading layers according to your needs. Equipped with excellent lamination properties, TPU films can be used to bond different textiles together. As textile laminate, these soft and elastic films can improve surface properties. Covestro offers both flame-retardant and non-flame retardant TPU films suited for different production processes. TPU films can achieve weight and volume reduction and supports light and space-saving design trends.



Roll-up shades for sun roofs

Our Platilon® or Dureflex® TPU films can be used as textile laminates for sun protection in automotive sun roofs. They effectively block out sun and can be easily integrated in small spaces. Highly flexible, roll-up black out TPU films also make it possible to create large-surface sunshades for panoramic roofs. These textile-laminated films are lightweight and flexible. They manage light, save weight and decrease volume. Covestro offers both flame-retardant and non-flame retardant TPU films suited for different production processes.



Covestro shading films

TPU films for blinds, awnings and curtains

Grade	Film Type	Thickness	TMA Softening Temperature	Color	Key Facts	Processability
Platilon®						
BO 9045	TPU ester	90 µm	150°C	white/black	black out, no color deviation of textile	thermo lamination
BO 9090X	TPU ester	80 µm	135°C	white/black/white	black out, no color deviation of textile	thermo lamination
U 2152 AUX	TPU ester	40 µm	150°C	white	ambient lighting, dim out effect	adhesive and thermo lamination
U 2182 AKX	TPU ester	40 µm	150°C	black	dim out effect	adhesive and thermo lamination

Product properties:
Lightweight-laminated textile with increased flexibility. Ability to replace coating. Thin films suitable for plissees.

TPU films for roll-up shades

Grade	Film Type	Thickness	TMA Softening Temperature	Color	Key Facts	Processability
Dureflex®						
PS 8010	TPU ester	25–75 µm	142°C	black	dim out to black out	thermo and adhesive lamination
Platilon®						
U 4180 DK	TPU ester	25–75 µm	155°C	black	dim out to black out	thermo and adhesive lamination
BO 9029	TPU ester	50 µm	150°C	black/grey black/white	black out, top layer	adhesive

Product properties:
Basic TPU films for use in automotive sunshades. Higher equipment levels for FR textiles necessary. Two- or three-layer laminates possible.

TPU films with flame-retardant properties/additives for roll-up shades

Grade	Film Type	Thickness	TMA Softening Temperature	Color	Key Facts	Processability
Platilon®						
U 4281 AF	TPU ester	45 µm	155°C	black	matt finish, dim out effect	adhesive lamination
BO 9141-T	TPU ester	50 µm	125°C	black/grey	soft, felxible, faster lamination	thermo lamination at lower temperature possible
U 2182 AFX 1-T	TPU ester	25 µm	150–175°C	black	thin, dim out effect, felxible	thermo & adhesive amination

Product properties:
Supporting flame-retardant properties of laminated textiles. Films with FR additives to achieve savings in FR textiles. Three-layer laminates possible.