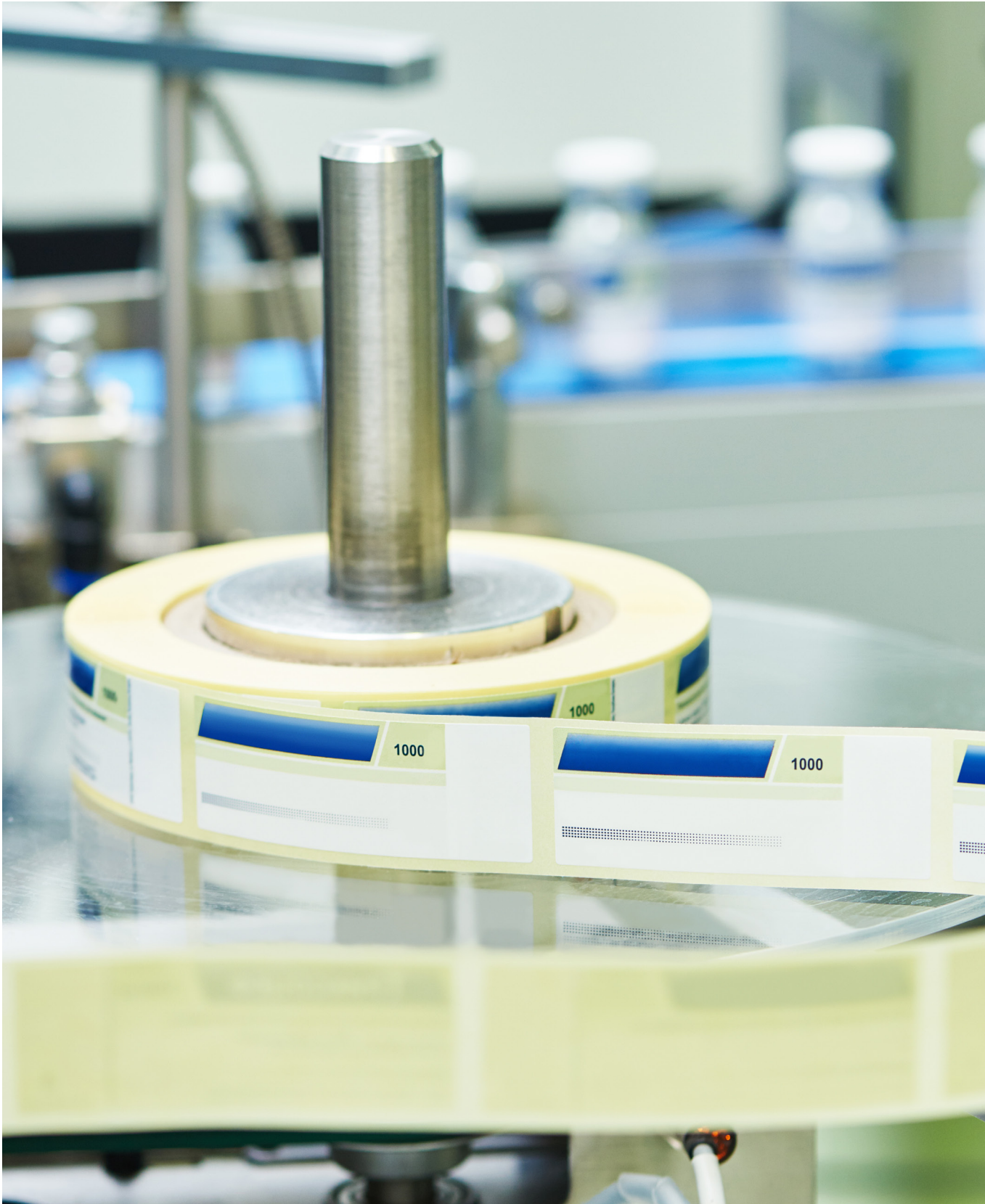




**Mylar**<sup>®</sup>  
Specialty Films

## **Melinex<sup>®</sup> Polyester Films**

**The industry standard for facestock and overlamination**

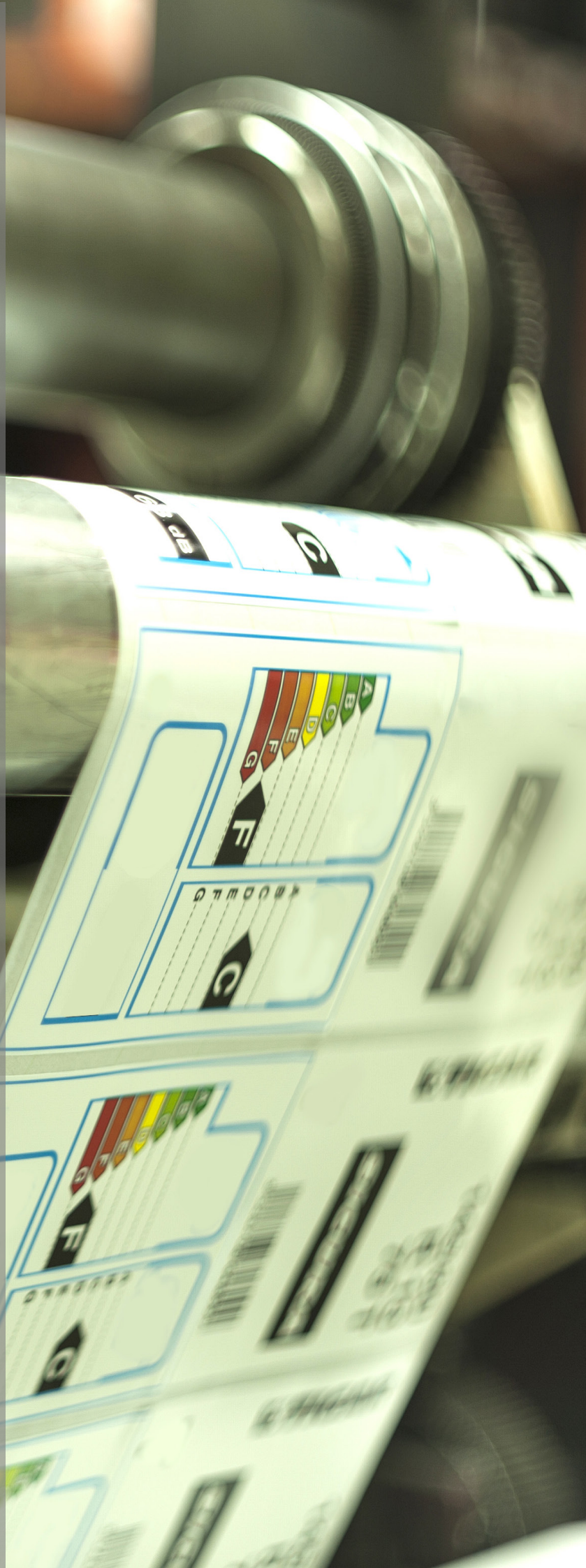




# The Melinex<sup>®</sup> PET Range of Films

The industry standard  
for durable label  
facestock and over  
lamination films

The Melinex<sup>®</sup> PET range  
of films offers enhanced  
durability, chemical  
resistance, thermal  
stability and stiffness  
making it the ideal choice  
of facestock films for  
diverse markets such as  
automotive, electronics  
and pharmaceuticals



# Why Mylar Specialty Films?

Melinex® and Mylar® PET films are the industry standard facestock substrates for durable labels in applications such as automotive, electronics and pharmaceuticals.

From the invention and commercialization of biaxially orientated PET films by our company in the 1950s, the unique properties of Melinex® PET and Mylar® PET have proved their worth to the labelling industry in countless applications and are now helping to address new global challenges such as the transition to electric vehicles or the adoption of circular economy principles. We are

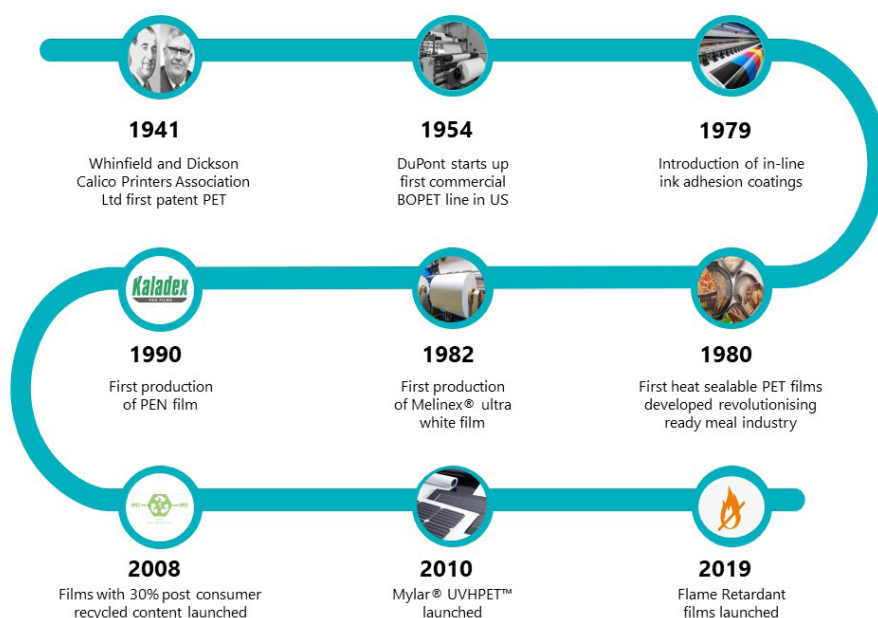
committed to the global label industry and pride ourselves on our global reach with manufacturing sites in Europe, US and Asia.

As the world's leading supplier of differentiated PET films we draw on our experience in a diverse range of industries to continually enhance our product offering to the labels industry. Whether it is enhanced weatherability based on our experience in the solar industry, decades of experience supplying demanding markets such as electrical insulation and automotive, or world leading levels of product

## Rich Heritage of Innovation

We have a rich history of innovation from the initial invention of biaxially orientated PET films in 1952 through to cutting edge developments which address some of the most urgent challenges faced by the world such as enabling the circular economy, the electrification of vehicles or the move to renewable energy.

We aim to be the go-to development partner for our customers and the wider value chains we operate in, investing in our people and production assets to enable the innovations of the future, and are proud to have the most diverse and flexible production assets of any polyester film producer.



## The Benefits of Mylar® and Melinex® PET Facestock Films

### Durability

- PET is resistant to a wide range of chemicals making it excellent for highly demanding applications.
- High levels of thermal and dimensional stability enabling use at elevated temperatures.
- Building on our experience in the solar industry, the UVHPET™ range offers a viable alternative to PVC in outdoor applications.

### Ease of processing

- Excellent stiffness lending itself to reliable high speed labelling processes.
- Biaxial orientation gives good tensile properties and tear resistance.

### Performance

- Electrical properties make PET ideal for the new challenges in batteries and electric vehicles. VTM-0 and VTM-2 options available.
- Excellent printability and appearance of finished label – clear, white, black, matte, gloss options available.

### Sustainability

- PET is the most recycled plastic on the planet, and Mylar Specialty Films were the pioneers in the use of recycled content in our film range.
- Our products are halogen free enabling safe and effective end of life outcomes.



# A Focus on Sustainability



## PET – A Sustainable Building Block

- Low carbon footprint and water usage compared to alternative materials
- Commercially available with high quality post consumer recycled content
- PET is the most recycled plastic on the planet, and Mylar Specialty Films were the pioneers in the use of recycled content in our film range
- Our products are halogen free enabling safe and effective end of life outcomes

Improving the sustainability of our operations and the products we supply is one of our core values and forms an integral part of our company vision. Working with our customers and other stakeholders we aim to develop solutions which reduce overall emissions and enhance the circularity of the end markets we serve.

Sustainability starts at our manufacturing plants, and we are proud that our ongoing commitment to sustainability has been recognized with a gold rating from EcoVadis, ranking us in the top 6% of comparable companies in our industry. Our environmental policies form an integral part of our ISO 14001 accreditation, and we are signatories to Operation Clean Sweep™ which confirms our commitment to eliminate the leakage of plastic from our manufacturing sites.

Mylar Specialty Films were the pioneer of the use of recycled content in polyester films, with well over a decade of experience of supplying rPET films into industries as diverse as packaging and photovoltaics.

We have a range of label facestock films available with high levels of post consumer recycled content, and are actively involved in a number of research products proving the viability of future recycling processes for liner, matrix and facestock material.

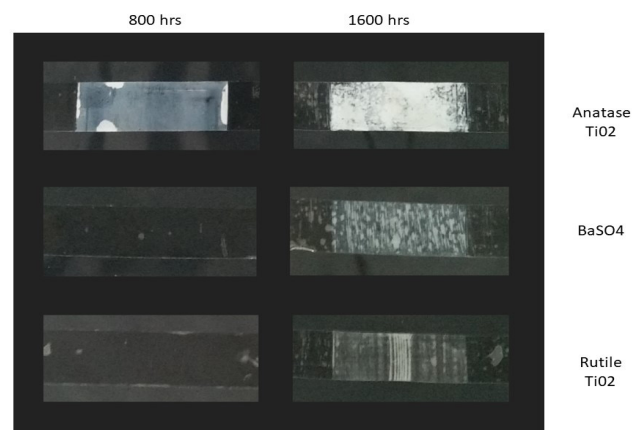
We are also developing bio based options with films available with 30% non-oil content and ongoing developments in the pipeline to develop 100% bio derived products.

## Durability in Outdoor Applications

PET films are widely used in the labels industry, but when it comes to durability not all films offer the same level of performance as Melinex® PET.

Melinex® PET grades have been proven to significantly outperform competitive white grades in the UL 969 durability test, resulting in significantly less “chalking” as can be seen in Figure 1.

Even greater durability is possible with our UVHPET™ range, providing a halogen free alternative to PVC in outdoor applications with excellent UV barrier and hydrolysis resistance.



Clear tape placed on dark card to show residue removed from surface of film after UV exposure in weatherometer (0.5W/m<sup>2</sup> irradiance at 340nm, ISO 4892/2)

# Extensive Range of Films for Labels Applications

Mylar Specialty Films are committed to the global label industry and are proud to offer one of the most extensive grade ranges in the industry.

Please contact us to learn more about the variants of these products with high levels of recycled content or bio based alternatives.

Film Type	Thickness Micron (Gauge)	Properties
Melinex® 313	12-23 (48-92)	Clear film, 1 side adhesion pretreat
Melinex® 329	36-175 (144-700)	High opacity, high gloss, pearly white, untreated
Melinex® 329F	36-175 (144-700)	Variant of Melinex® 329 for low temperature food contact applications
Melinex® 339	36-250 (144-1000)	High opacity, high gloss, pearly white, 2 side adhesion pretreat
Melinex® 339F	36-125 (144-500)	Variant of Melinex® 339 for low temperature food contact applications
Melinex® 339LS	50-125 (200-500)	Variant of Melinex® 339 offering lower shrinkage properties than standard film. Ideal for high temperature applications
Melinex® 384	50 (200)	Translucent matt film (c.40% gloss) to reverse metallisation to give aluminium effect labels
Melinex® 401	50-100 (200-400)	High clarity film with a 1 side slip treatment for good handling properties
Melinex® 405	23-96 (92-384)	High clarity film with very good handling properties, 1 side adhesion pretreat
Melinex® 406	23-96 (92-384)	High clarity film with very good handling properties, 2 side adhesion pretreat
Melinex® 418UV	23-50 (92-200)	Clear film with enhanced UV block and outdoor durability. One side adhesion pretreat
Melinex® 427D	50 (200)	Glossy opaque black film, untreated
Melinex® 475	50 (200)	Translucent white film, 2 side adhesion pretreat
Melinex® 506	75-175 (300-700)	Optically clear film, 2 side adhesion pretreat
Melinex® 721	50 (200)	Optically clear film, 1 side adhesion pretreat with superior adhesion to UV inks
Melinex® 723	36-50 (144-200)	Optically clear film, 2 side adhesion pretreat with superior adhesion to UV inks
Melinex® FR241	12-50 (48-200)	Clear film with VTM-0 Fire Retardance. 1 side adhesion pretreat



[www.mylar.com](http://www.mylar.com)

contact us: [europe@mylar.com](mailto:europe@mylar.com) / [usa@mylar.com](mailto:usa@mylar.com) / [ap@mylar.com](mailto:ap@mylar.com)

#### **United Kingdom**

Mylar Specialty Films UK Ltd  
The Wilton Centre  
Redcar  
TS10 4RF

#### **Continental Europe**

Mylar Specialty Films Luxembourg SA  
BP-1681  
L-1016  
Luxembourg

#### **United States**

Mylar Specialty Films  
3600 Discovery Drive  
Chester  
VA 23836 USA

#### **Asia Pacific**

Mylar Specialty Films  
Room A9, 11 Floor, NCB Innovation Centre  
No. 888 Lai Chi Kok Road, Cheung Sha Wan,  
Kowloon, Hong Kong, China

This information corresponds to our current knowledge on the subject. It is offered solely to provide possible suggestions for your own experimentations. It is not intended, however, to substitute for any testing you may need to conduct to determine for yourself the suitability of our products for your particular purposes. This information may be subject to revision as new knowledge and experience becomes available. Since we cannot anticipate all variations in actual end-use conditions, Mylar Specialty Films makes no warranties and assumes no liability in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent right. © 2024 Mylar Specialty Films. All rights reserved, all trademarks and service marks denoted with ™ or ® are owned by Mylar Specialty Films or associated affiliates unless otherwise noted. Nothing contained herein shall be construed as a representation that any recommendations, use or resale of the product or process described herein is permitted and complies with the rules or regulations of any countries, regions, localities etc or does not infringe upon patents or other intellectual property rights of third parties. Melinex®, Mylar® and Kaladex® are registered trademarks of Mylar Specialty Films U.S. Limited Partnership.