A rich heritage in technology

A track record of excellence in innovation

Strong customer relationships
Established 1st January 2000

50:50 joint venture

DuPont & Teijin

$35 billion sales
64,000 employees

$8 billion sales
16,000 employees
Our Vision

To be the preferred polyester film development partner based on our unique technical capabilities. & A true innovation engine, that brings novel and value-adding PET and PEN film solutions to customers throughout the value chain.
Wallace Carothers

Based on his pioneering work, the polyester film process was developed on both sides of the Atlantic during the late 1940's.
A Rich Heritage in Technology

Over 50 years experience in polymer and film making

1st

Polyester film lines

To introduce white film based on unique polymer technology

Interdraw coatings onto PET

Simultaneous biaxial stenter

Commercial PEN film

To launch films containing Post Consumer Recyclate

To launch heatseal technology and redefine food packaging
A Track Record in Innovation
(Innovation Engine)

- Almost 200 research scientists and engineers worldwide
- Major Global R&D Centre at Wilton UK working with Regional Technical Centres
- Over 200 patents covering film and process in addition to proprietary technology
- Three UK Queen’s Awards for Innovation in 13 years (2003, 2008, 2011)
- Technical Development Materials Award
  IdTechEx Printed Electronics 2015
- Best Emerging Supplier 2015, Avery Dennison Supplier Awards
Strong Customer Relationships

Mylar®
PET polyester film

Melinex®
PET polyester film

For over 50 years...

...we have been working with our customers to develop PETF solutions to changing market needs

...customers have looked to us for the next generation of products
Our innovation and adaptability...

...has enabled us to work in partnership with technology and market leaders, brand-owners and OEMs

...has enabled our product range to expand and be re-invented many times

...has enabled our brands to become recognised for technical excellence, quality, performance, and reliability

Melinex®
PET polyester film

Mylar®
PET polyester film
4 billion square metres annual capacity (at 50 micron equivalent)

3 - 9 metres manufactured width

0.5 microns - 500 microns thickness range

Slit width from few mm - 3 metres

Appearance range transparent, hazy, white, black, metallised

Up to reel lengths 48 km (dependant on thickness)

Controlled surface textures and customised functionality
Towards Sustainability
A Journey

Reducing Our Environmental Impact
- Aligned to DuPont 2020 Sustainability Goals

Assisting Our Customers with Compliance
- Dedicated product stewardship resources

Contributing to Environmental Impact Reduction through the Value Chain
- Products for a cleaner 'greener' future
Film Properties

- Light Transmitting
  - Ultra Clear
  - Diffusing
  - Anti-Fog
  - Printable

- Textured
  - Surface Roughness
  - Gloss/Matt

- Opaque
  - White and Black
  - Printable

- Electrically Insulating
  - 0.9 micron - 500 micron
  - Low Oligomer
  - Printable

- Weatherable
  - UV Stable
  - Hydrolysis Resistant

- Bondable
  - Permanent or Peelable Seal
  - Toughened
  - UV Stable

- Thermal Films
  - Controlled Shrinkage
  - Thermoformable
Medical Faceshields (disposable)
Blood glucose test strips (for diabetes)
Sterilisable Packaging

Healthcare

Properties of PET used...
- Inert
- Optical Clarity
- Anti-fog / anti-glare
- Controlled thickness profile
- Sterilisable
Photovoltaics (PV) Solar Panels

Laminates for ‘Back Sheet’ that encapsulate the solar cell

Photovoltaics

Properties of PET used...

- Inert
- UV stability
- Hydrolysis resistance
- Electrical insulation
Labels - for automotive, electronics, pharmaceutical etc
Display materials - pop-up banners, light boxes etc
Cards - identity / security applications

Properties of PET used...
- Opacity
- Printability
- Physical strength
- Durability / toughness
- Temperature resistance
- Chemical resistance
Flexible Electronics

Automotive sensors (seat sensors / airbag)
Flexible circuits
Membrane touch switches (computer keyboards, microwave oven controls)
LCD TV / PC screen components
E-readers e.g Kindle
Screen protectors

Properties of PET used...

Flexible
Lightweight
Oxygen barrier
Stability - temperature, chemical, physical
Optical Properties - clarity or diffusion
Electrical insulation

DuPont Teijin Films
Packaging
Heat Sealable

Peelable and permanent seal lidding films
Ovenable packaging

Properties of PET used...
- Wide range of heat seal properties
- Low temperature sealing
- High temperature capability
- Class leading antifog
- Recyclability

DuPont Teijin Films®
Durable Cards

Around 500 million long life ID cards issued on Melinex® every year

Properties of PET used...

- Long life expectancy
- Physical strength and durability
- Competitive with other materials
- Excellent thermal stability and solvent resistance
- Printable with UV curable and solvent based inks
Electrical Insulation

Motor, compressor and transformer insulation used in white goods, air conditioning, etc.

Properties of PET used...
- Opacity
- Stiffness
- UL recognition
- Thermal endurance
- Physical strength
- Resist chemical attack
- High dielectric strength
Capacitors

Electronic components
Used in most electronics circuits
Used in electric car batteries for energy storage

Properties of PET and PEN used...
- High capacitance density with ultra-thin films
- Excellent product uniformity by simultaneous biaxial film stretching technology
- Film surface topographies tailored to capacitor manufacturing processes
- Distinct levels of heat stability, designed for specific application requirements
6 manufacturing locations
Sites in Europe, the USA and China
All the major regions of the world
2375 employees
Global turnover $600 million
Europe contributes over one third of global business
Global volume - almost 150,000 tonnes
Towards Sustainability
A Journey

Reducing our environmental impact

- Aligned to DuPont 2015 Sustainability Goals
- All sites ISO registered 9001
- All sites with environmental plans

Luxembourg site
ISO 14001 and EMAS certified
Registered by the Wildlife Habitat Council

Dumfries site
Environmental programme reducing carbon footprint
Winner of 2008 UK energy saving award
Core Values

Ethical Behaviour
We will perform and behave ethically in all we do.

Quality
Our commitment to provide superior service for our customers.
Our commitment to provide the highest quality products.

Safety
Needs to be at the forefront of each person’s mind, in every task or situation, at all times.
No job or activity is worth doing if not done safely.

Respectful Treatment
Everyone needs to be able to feel safe and supported in his or her work environment.
Our brands...

Melinex®
PET polyester film

Mylar®
PET polyester film

are known across the globe and stand for...

Versatility ✔
Quality ✔
Performance ✔
Reliability ✔
Wilton, UK
Global R&D Centre
Wilton Semi-Technical Production Facility
In support of Global Innovation

- Experimental polymer plant
- Two pilot film lines
- Laboratory stretching
- State of the art coating development facilities
Luxembourg

European HQ, Customer Service Centre, Polymer and Film Manufacturing

Dumfries, UK

Polymer and Film Manufacturing
Luxembourg
European HQ, Customer Service Centre, Polymer and Film Manufacturing

Dumfries, UK
Polymer and Film Manufacturing

European HQ and Customer Service Centre
Polymer and film manufacturing
Wide portfolio of PET films
Thickness capability from 0.9 to 500 microns
3 lines including world’s first Simultaneous biaxial stenter

Polymer and film manufacturing
Wide portfolio of PET films
Thickness capability from 12 to 350 microns
3 lines including world’s first 9m wide line