

Stretch Film



PCR Range Oriented Films

User friendly

Reduce repetitive strain injuries due to light rolls in comparison to regular stretch films. Oriented rolls are shock proof and are damage resistant.

Wrapping consistency

No compromises on safety and quality. When paired with our OSS solution stability and costs are controlled and film is used until the last metre.

Cost efficient

The best alternative to manual wrapping. Optimized cost per pallet due to a more controlled wrapping and thin gauge extrusion process.

100% recyclable

Our oriented films are 100% recyclable. Packaging waste can be reduced by over 50% in comparison with traditional stretch film wrapping methods.

PCR Oriented Film

The sustainable alternative to fossil fuel based oriented film

PCR: One of our ways to contribute to a better circular economy
Reducing environmental impact through the re-usability of stretch film

What is Post Consumer Recycled (PCR)?

PCR, is recycled materials collected from industrial waste packaging. In order to produce PCR Resin, waste packaging must be sorted to isolate LLDPE (linear low density polyethylene) and processed through the recycling chain. This includes returns of used oriented film material.

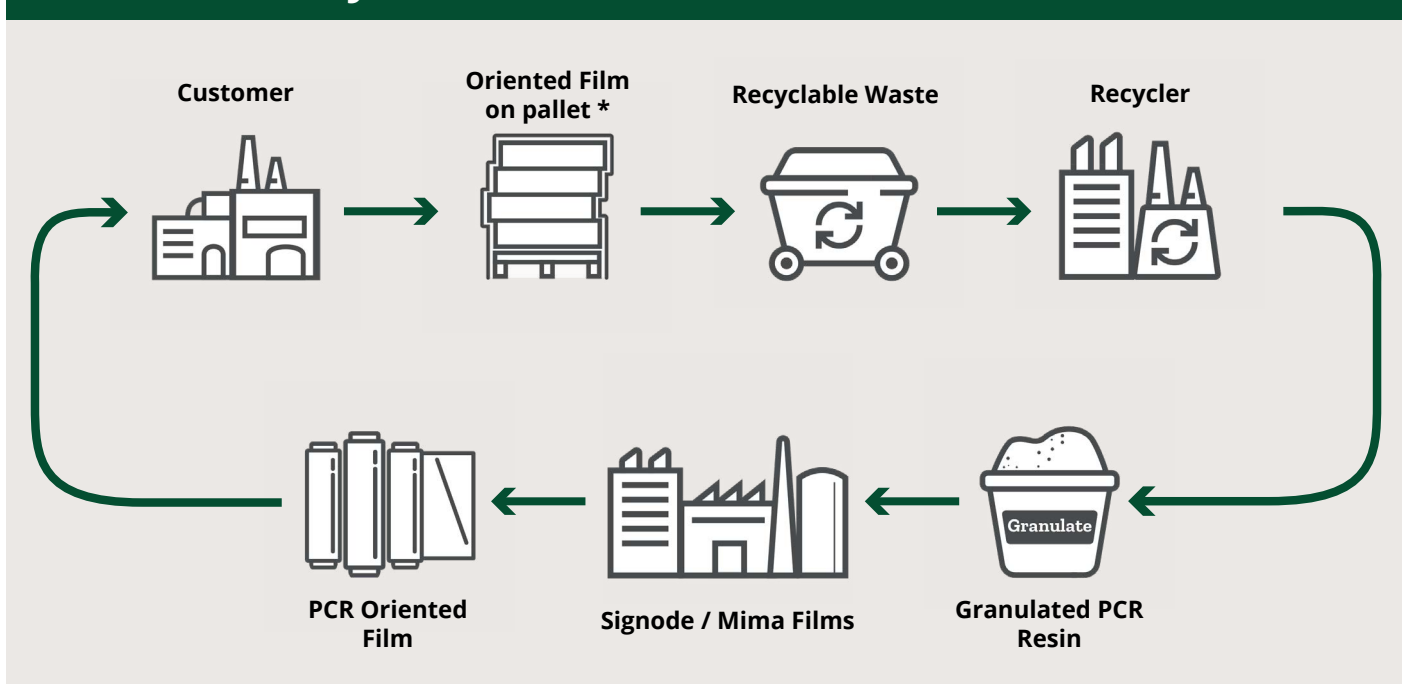
We acquire PCR Resin, from our trusted circular economy partners, with the highest grade of purity to ensure the same mechanical properties as regular stretch film.

How Does PCR Oriented Film perform?

When it comes to mechanical performance there is no difference between PCR Oriented films and fossil fuel based films. We have invested time and resources in to research and development to create the optimum recipe for the highest quality.

Stretchability of film requires a strong and stable molecular chain to achieve consistent results. By using 30% PCR resin in product composition we ensure a reliable and consistent quality, with the highest performance standards.

Material Life Cycle of PCR Oriented Film



* Fossil fuel based and PCR stretch film can be recycled several times in this loop



Benefits of using PCR oriented films

Why PCR is the key choice for a more sustainable method of wrapping pallets

■ A More Sustainable Industry

Made with 30% PCR content, recovered from post consumer waste streams. Signode PCR oriented film delivers the same mechanical performance and transportation efficiency as film produced with virgin raw material, maintaining full recyclability.

■ CO2 Reduction

The fossil fueled raw material production process involves numerous steps with high CO2 impact. By recycling used LLDPE you minimize CO2 emissions, in comparison to the production of film, made from virgin raw material. It also prevents the export of plastic waste outside of the EU and it's associated CO2 emissions.

■ Cuts Tax Costs in €'s

The EU plans to raise a tax per ton of non-recycled plastic content. Each metric ton of non-recycled plastic is a loss and potentially a cost, both financially and environmentally. By using PCR oriented film you reduce the volume of non-recycled plastic, minimizing waste & contributing to EU environmental goals.

■ Future Ready

The trajectory of industries is leading towards a more sustainable way of re-using waste packaging. By using Signode PCR oriented film, you contribute to prevent the use of unnecessary resources, involved in the production process of new packaging.



Granulated PCR Resin

Sustainability

How we are making a difference

Oriented film is fully Recyclable

Oriented film is made with Linear Low Density PolyEthylene (LLDPE) which is 100% recyclable and can be reused for recycled oriented film or numerous applications depending on the purity of the collected material.



Produced locally in Belgium & Ireland

The raw material that we use for our films is carefully selected and sourced in Europe. Mass balanced, bio based and recycled raw materials in order to reduce environmental impact are our top priorities.



Technical Consultancy to our Customers

Being closer to our customers and contributing to optimal consumptions is one of our commitments. The best oriented film is the one you don't waste by being overpacked.



Energy Management

More than 50% of 2021 Capital Investments were Sustainability related projects. As an example, 3600m² of solar panels were installed in 2021 for our Virton plant, with an objective of using 40% green energy.



Internal Recyclability

Our Target is to reuse 100% of internal scrap by 2023 latest. Today our Gorey factory in Ireland is a leader in this commitment with almost 100% of the internal scrap reprocessed and reused in house.



Quality Performance

We make no compromises on quality with an average return rate of <0.1% in 2022. This prevents multiple trips, unnecessary resources and carbon footprint increase.



WE'LL ALWAYS
PROTECT IT.

PCR Film - With core



Introducing PCR Machine film, an oriented blown machine film containing 30% recycled raw material, designed for semi-automatic machines.

Reel & Packaging Specifications	
Product Reference	PCRB7B390
	/4200
Thickness μ	6.6
Film width (mm)	390
Reel length (m)	4200
Cling	Inside
Core weight (kg)	1.153
Reel weight (kg GFN)	11.250
Pallet size	1000 x 1200
Outside diameter (mm)	257
Inside core diameter (mm)	≥ 76
Palletization/nr of layers	2
Nr of reels/pallet	36
Pallet gross weight (kg)	405
Pallet net weight (kg)	363

PCR Film Benefits

- Containing 30% PCR
- Improved load containment
- One side cling film
- Low coefficient of friction
- Good clarity and optics
- Less film consumption

Film Tolerances

Thickness Tolerance	+/- 10%
Core Protrusion	± 3 mm
Tolerances on weight	± 5 %
On Reel length	± 5 %
On Film width	± 4 mm

Introducing PCR Hand Film Soft Core, a blown oriented hand film containing 30% recycled raw material, with optimized core weight.

Reel & Packaging Specifications	
Product Reference	PCRB2B390
	/0600
Thickness μ	6.6 μ
Film width (mm)	390
Reel length (m)	600
Cling	Inside
Core weight (kg)	0.180
Reel weight (kg GFN)	1.601
Pallet size	1000 x 1200
Outside diameter (mm)	120
Inside core diameter (mm)	≥ 50
Palletization/nr of layers	4
Nr of reels/pallet	360
Pallet gross weight (kg)	576
Pallet net weight (kg)	512

PCR Film Benefits

- Containing 30% PCR
- Improved load containment
- One side cling film
- Low coefficient of friction
- Good clarity and optics
- Less cardboard waste

Film Tolerances

Thickness Tolerance	+/- 10%
Core Protrusion	± 3 mm
Tolerances on weight	± 5 %
On Reel length	± 5 %
On Film width	± 4 mm

PCR Film - Coreless



Introducing PCR Coreless film, an oriented blown film containing 30% recycled raw material, designed for semi-automatic machines or manual use.

Reel & Packaging Specifications

Product Reference	PCRBCAB7B390
	/0800
Thickness μ	6.6
Film width (mm)	390
Reel length (m)	800
Cling	Inside
Core weight (kg)	-
Reel weight (kg GFN)	1.894
Pallet size	1000 x 1200
Outside diameter (mm)	185
Inside core diameter (mm)	≥ 76
Palletization/nr of layers	5
Nr of reels/pallet	180
Pallet gross weight (kg)	405
Pallet net weight (kg)	341

PCR Film Benefits

- Containing 30% PCR
- Improved load containment
- One side cling film
- Low coefficient of friction
- Good clarity and optics
- Zero cardboard waste

Film Tolerances

Thickness Tolerance	+/- 10%
Core Protrusion	± 3 mm
Tolerances on weight	± 5 %
On Reel length	± 5 %
On Film width	± 4 mm

Sources:
Signode Europe Outside-In Customer Study
conducted 2020



WE'LL PROTECT IT FROM HERE.

Signode is the multi-billion-dollar global Transit Packaging Division of Crown Holdings, with 80 manufacturing facilities, 33 within Europe where we have over 2000 employees. The breadth and depth of Signode's experience and product portfolio allows the company to offer the resources, reach, and vision to provide transit packaging solutions, from the smallest to largest of customers.