

Stretch Film

PRODUCTS
SERVICES
INTEGRATION
AUTOMATION



pack



bundle



unitize



warehouse



transport



Machine Film

Product range

Performance driven

We design, we produce and we deliver blown and cast films, with outstanding mechanical properties for maximum performance on your production line.

Load securement

No compromises on safety and stability. Our field expertise and technical knowledge is at your service for the best film and machine combination.

Cost efficient

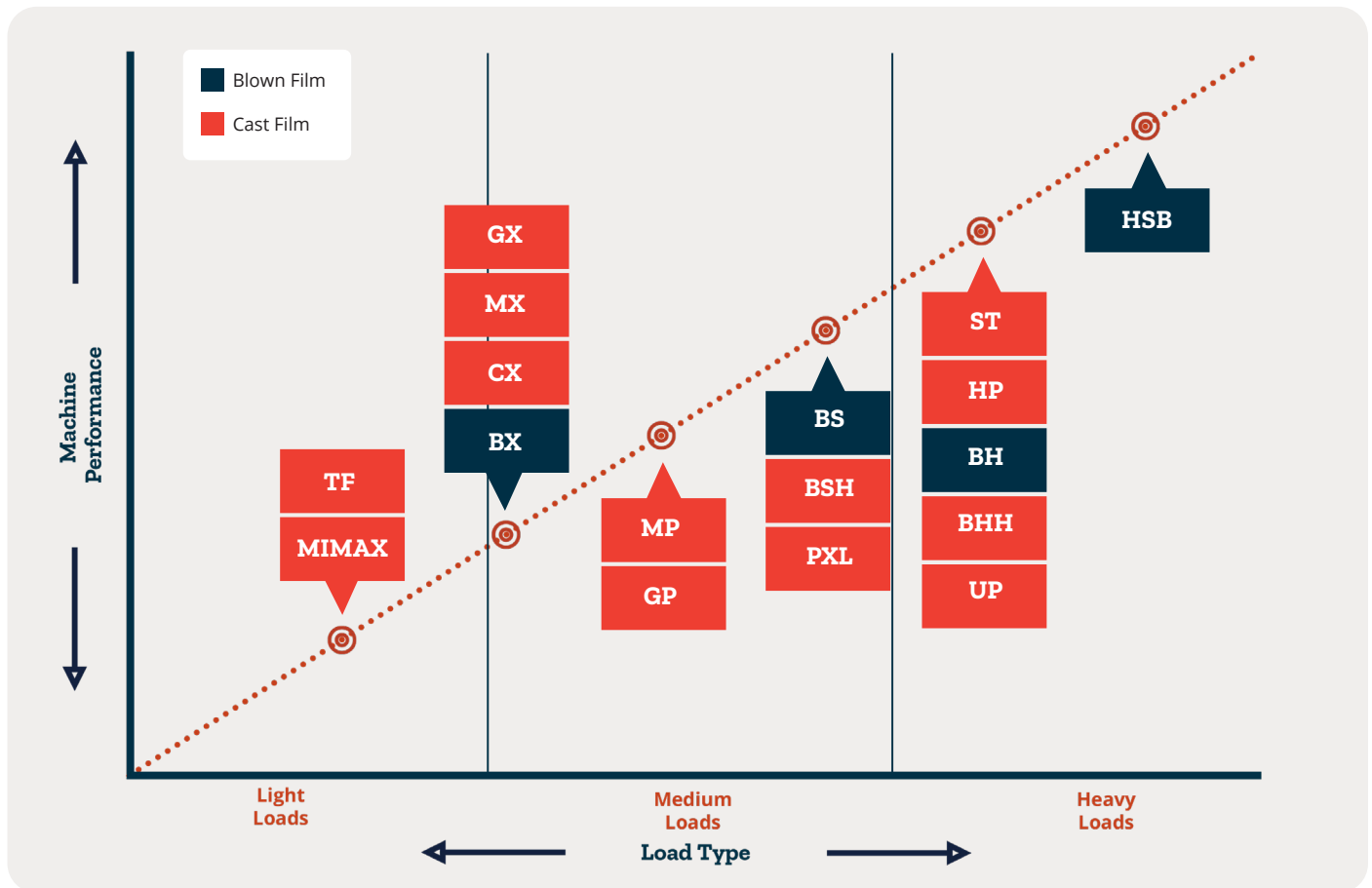
Always looking for the best cost versus efficiency results. Our holistic step by step validation process is key to maximizing pallet stability at the best cost.

100% recyclable

Our stretch films are 100% recyclable. We invest in new production methods to become more sustainable and improve our carbon footprint.

Product Range Overview

The right film, for the right application



Reasons why our Stretch Film product range are the key choice for consumers

Quality & Performance

All our stretch films are designed, produced and delivered with the highest grade of quality control. We make no compromises on safety, traceability and performance. Our quality incidence report was < 0.1% in 2020. We are BRC / IOP, ISO 9001, 14001 and 50001 certified.

Consistency

We select on purpose top quality raw materials, sourced in Europe and carefully controlled to perfect our recipes and make your application work flawlessly. As a producer we understand the absolute necessity to keep your lines running with no incident, that is why our product range is designed to bring the most consistent results depending of the mechanical properties of the film.

Producer Expertise

40+ years experience as the pioneer stretch film producer in Europe. We produce both Cast and Blown films on our 3 production facilities located in Belgium and Ireland.

Research & Development

We are consistently improving our products in order to find better solutions for our customers, we also commit our focus to sustainability, waste reduction and carbon footprint.

Technical Consultancy & Holistic Approach

We deliver to our customers superior technical support and expertise. Our film specialists provide ad-hoc and on site audits to perfectly match the right film with the right machine and application. We do not only rely on weight or cost, we analyze your whole production and supply chain process, from primary to tertiary packaging and automated storage to provide you the best solution, both in stability and economical performance.

Our laboratory and test centers – unique in Europe – are powerful tools to achieve the best-in-class performance according to your needs.

Sustainability

How we are making a difference

Stretch film is fully Recyclable

Stretch film is made with Linear Low Density PolyEthylene (LLDPE) which is 100% recyclable and can be reused for recycled stretch 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 sourced and PIR / PCR raw materials in order to reduce environmental impact are our top priorities, fully aligned with our twentyby30 sustainability program.



Technical Consultancy to our Customers

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



Energy Management

More than 50% of 2021 Capital Investments are Sustainability related projects. As an example, 3600m² of solar panels to be installed in 2021 for our Virton (Belgium) plant, 40% of green energy forecasted at the end of 2021.




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 <0.1% in 2020. This prevents multiple trips, unnecessary resources and carbon footprint increase.

A photograph of a lush green forest with tall trees and sunlight filtering through the canopy. A large white graphic element, resembling a stylized 'P' or a speech bubble, is overlaid on the right side of the image.

**WE'LL ALWAYS
PROTECT IT.**

Technology & Expertise

How we can help you achieve premium packaging for your pallet

POP Center: Our packaging test and optimization program in Europe

Unrivalled integrated test center with 40+ years of producer knowledge

■ Stability Expertise

As a stretch film producer, we pioneered the development of the first integrated stability test center in Europe. Our POP Center (Pallet Optimization Program), located in VIRTON (Belgium) and our Test Center in SØNDERBORG (Denmark) provides a holistic study of the load you want us to improve.

■ Test Protocol

From primary packaging to the wrapping cycle, we analyze the stability level of your pallets with comprehensive test protocol including...

- Acceleration table (G-Force tool)
- Vibrations platform
- Tilt table
- Water resistance test

■ Data Analysis

Once we have a reliable and data driven overview of your current stability level, our dedicated engineers start to perform a series of tests with our films and our Octopus wrapper machine, to provide you with a customised, best in class solution, both in stability and economical performance.

■ From Test Centre to your Production Line

Our POP Centre is today an ideal and efficient tool and perfect solution to design optimized packaging according to your requirements.



Dedicated Engineers



G-Force Tool in action



Stability tool: independent lab certified transportable unit

The best way to check and improve pallet stability

■ Pallet Stability Check

Our Stability tool is a transportable solution designed by an independent laboratory in Belgium. This mobile tool records in real time the forces, both in position and intensity, applied by the film on your pallet during the wrapping cycle. It allows us to check accurately on your own production line the most important indicators regarding the stability of your pallet.

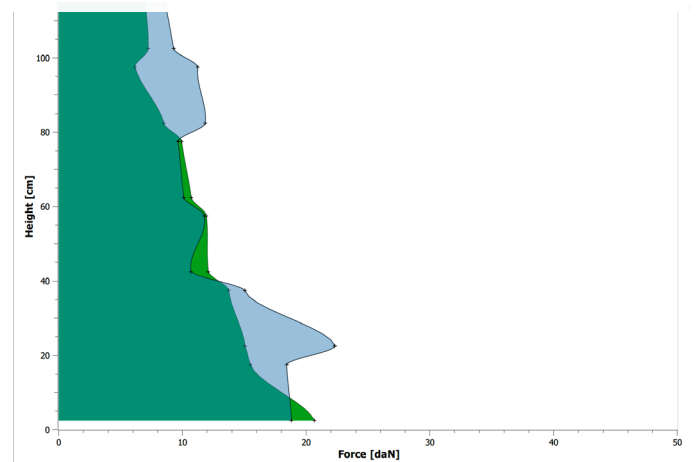
■ Real Time Feedback

Weak points or overpacked parts of your load are instantly spotted by the sensors on our device and transmitted wirelessly to our dedicated software for analysis and comparison. Reliable data sent by the Stability tool allows Ad-Hoc stability studies, in depth optimizations to solve or upgrade according to your needs.

■ Replicability and Accuracy

The Stability tool is an ideal solution to ensure optimal pallet loading, especially when combined with the POP Center, to duplicate results from one machine to another.

Real Time Force Diagram recorded with the stability tool



Real time data collection, on pallet during wrapping cycle



Sensors on edge of pallet

GX line

Standard cast film for everyday use



Introducing GX, a cast film specifically designed to provide good performance for universal applications.

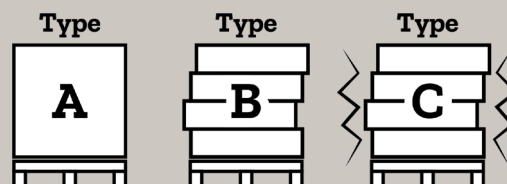
GX Line Benefits

- Versatile stretch film designed for general purpose
- One side cling film
- Low coefficient of friction
- Good clarity and optics
- Silent unwind

Applications

- Up to 180% PPS stretch (1m => 2.8 m)
- Type A, B and C loads
- Easy loading / unloading of products

Pallet Load Types



Film Tolerances

Thickness Tolerance	+/- 10%
Core Protrusion	6 ± 3 mm
Tolerances on weight	± 5 %
On Reel length	± 5 %
On Film width	± 4 mm

Reel & Packaging Specifications

Product Reference	23GX500
Thickness (μ)	23
Film width (mm)	500
Reel length (m)	1560
Recommended Pre-Stretch	+/- 180%
Cling	Inside
Core weight (kg)	1.521
Reel weight (kg GFN)	17.940
Pallet size	1000 x 1200
Outside diameter (mm)	240
Inside core diameter (mm)	≥ 76
Palletization/nr of layers	2
Nr of reels/pallet	40
Pallet gross weight (kg)	717
Pallet net weight (kg)	657

Please contact us for more information or visit
www.signode.com

MX line

Differential cling film



Introducing MX, the original differential cling film that provides consistent performance on all stretch equipment.

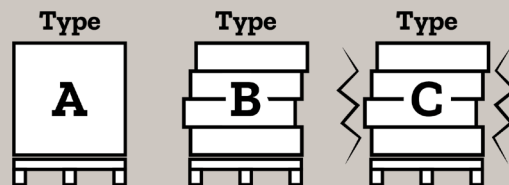
MX Line Benefits

- Non-migratory, differential cling film
- Excellent clarity and optics
- Silent unwind
- Consistent machinability

Applications

- Up to 180% PPS stretch (1m => 2.8 m)
- Type A, B and C loads
- Multipurpose product unitisation

Pallet Load Types



Film Tolerances

Thickness Tolerance	+/- 10%
Core Protrusion	6 ± 3 mm
Tolerances on weight	± 5 %
On Reel length	± 5 %
On Film width	± 4 mm

Reel & Packaging Specifications

Product Reference	20MX500	23MX500
Thickness (μ)	20	23
Film width (mm)	500	500
Reel length (m)	2000	1750
Recommended Pre-Stretch	+/- 165%	+/- 180%
Cling	Differential	Differential
Core weight (kg)	1.04	1.04
Reel weight (kg GFN)	19.340	19.454
Pallet size	1000 x 1200	1000 x 1200
Outside diameter (mm)	250	250
Inside core diameter (mm)	≥ 76	≥ 76
Palletization/nr of layers	2	2
Nr of reels/pallet	38	38
Pallet gross weight (kg)	735	739
Pallet net weight (kg)	695	700

Please contact us for more information or visit
www.signode.com

CX line

The original cast film



Introducing CX, the outstanding consistent film performing on all stretch equipment, an excellent general purpose film.

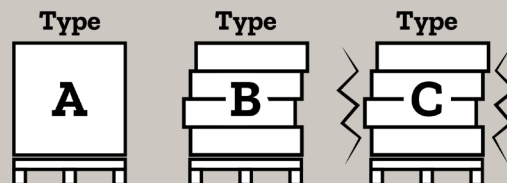
CX Line Benefits

- Excellent clarity and optics
- Optimum machinability
- Silent unwind
- One side cling film

Applications

- Up to 180% PPS stretch (1m => 2.8 m)
- Type A, B and C loads
- Multipurpose product unitization
- Easy loading / unloading of products

Pallet Load Types



Film Tolerances

Thickness Tolerance	+/- 10%
Core Protrusion	6 ± 3 mm
Tolerances on weight	± 5 %
On Reel length	± 5 %
On Film width	± 4 mm

Reel & Packaging Specifications

Product Reference	17CX501	17CX500	20CX501	20CX500	23CX501	23CX500	30CX500
Thickness (μ)	17		20		23		30
Film width (mm)	500		500		500		500
Reel length (m)	2300		2000		1750		1350
Recommended Pre-Stretch	+/- 150%		+/- 165%		+/- 180%		+/- 180%
Cling	Inside		Inside		Inside		Inside
Core weight (kg)	1.04		1.04		1.04		1.04
Reel weight (kg GFN)	18.928		19.340		19.454		19.569
Pallet size (mm)	800 x 1200	1000 x 1200	800 x 1200	1000 x 1200	800 x 1200	1000 x 1200	1000 x 1200
Outside diameter (mm)	250		250		250		250
Inside core diameter (mm)	≥ 76		≥ 76		≥ 76		≥ 76
Palletization/nr of layers	2		2		2		2
Nr of reels/pallet	28	38	28	38	28	38	38
Pallet gross weight (kg)	530	719	542	735	545	739	744
Pallet net weight (kg)	501	680	512	695	516	700	704

Please contact us for more information or visit
www.signode.com

BX line

The standard blown film for everyday use



Introducing BX, the all around blown film for automatic and semi-automatic machines, with good performance on type B loads.

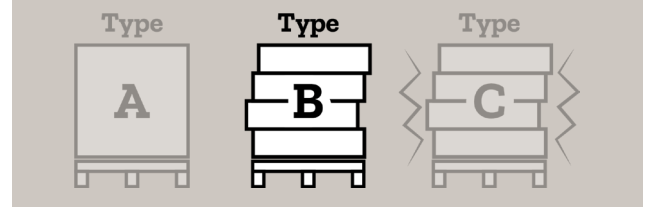
BX Line Benefits

- Consistent high performance stretchability
- Superior toughness and good puncture resistance
- Non migratory one side cling / one side high slip (low COF)
- High abrasion and scuff resistance
- High load force
- Good optics

Applications

- Up to 200% PPS stretch (1m => 3 m)
- Especially for B type loads
- Irregular shaped loads
- Unstable heavy loads
- Easy loading / unloading of products

Pallet Load Types



Film Tolerances

Thickness Tolerance	+/- 10%
Core Protrusion	6 ± 3 mm
Tolerances on weight	± 5 %
On Reel length	± 5 %
On Film width	± 4 mm

Reel & Packaging Specifications

Product Reference	15BX501	17BX501	19BX501	22BX501
Thickness (μ)	15	17	19	22
Film width (mm)	500	500	500	500
Reel length (m)	2700	2300	2110	1830
Recommended Pre-Stretch	+/- 150%	+/- 180%	+/- 200%	+/- 200%
Cling	Outside	Outside	Outside	Outside
Core weight (kg)	1.04	1.04	1.04	1.04
Reel weight (kg GFN)	19.569	18.928	19.381	19.459
Pallet size	800 x 1200	800 x 1200	800 x 1200	800 x 1200
Outside diameter (mm)	250	250	250	250
Inside core diameter (mm)	≥ 76	≥ 76	≥ 76	≥ 76
Palletization/nr of layers	2	2	2	2
Nr of reels/pallet	28	28	28	28
Pallet gross weight (kg)	548	530	543	545
Pallet net weight (kg)	519	501	514	516

Please contact us for more information or visit
www.signode.com

MP line

The all-round industrial cast film



Introducing MP, the all-round cast film specifically developed for industrial automatic wrappers.

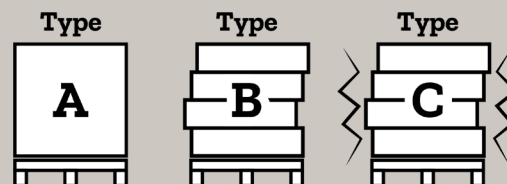
MP Line Benefits

- Consistent high performance stretchability
- One side cling film
- Low coefficient of friction
- Good clarity and optics
- Optimum machinability
- Silent unwind

Applications

- Up to 250% PPS stretch (1m => 3.5 m)
- Type A, B and C loads
- Easy loading / unloading of products

Pallet Load Types



Film Tolerances

Thickness Tolerance	+/- 10%
Core Protrusion	6 ± 3 mm
Tolerances on weight	± 5 %
On Reel length	± 5 %
On Film width	± 4 mm

Reel & Packaging Specifications

Product Reference	12MP501	15MP501	17MP501	20MP501	23MP501
Thickness (μ)	12	15	17	20	23
Film width (mm)	500	500	500	500	500
Reel length (m)	3340	2700	2300	2000	1750
Recommended Pre-Stretch	+/- 200%	+/- 220%	+/- 220%	+/- 250%	+/- 250%
Cling	Inside	Inside	Inside	Inside	Inside
Core weight (kg)	1.04	1.04	1.04	1.04	1.04
Reel weight (kg GFN)	19.377	19.569	18.928	19.340	19.454
Pallet size	800 x 1200	800 x 1200	800 x 1200	800 x 1200	800 x 1200
Outside diameter (mm)	250	250	250	250	250
Inside core diameter (mm)	≥ 76	≥ 76	≥ 76	≥ 76	≥ 76
Palletization/nr of layers	2	2	2	2	2
Nr of reels/pallet	28	28	28	28	28
Pallet gross weight (kg)	543	548	530	542	545
Pallet net weight (kg)	513	519	501	512	516

Please contact us for more information or visit
www.signode.com

GP line

High quality industrial film



Introducing GP, a consistent and reliable cast film, dedicated to demanding industrial applications.

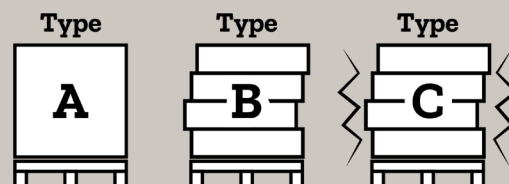
GP Line Benefits

- Designed for consistent production outputs
- One side cling film
- Good clarity and optics
- Field proven reliability
- Silent unwind

Applications

- Up to 260% PPS stretch (1m => 3.6 m)
- Type A, B and C loads
- Easy loading / unloading of products

Pallet Load Types



Film Tolerances

Thickness Tolerance	+/- 10%
Core Protrusion	6 ± 3 mm
Tolerances on weight	± 5 %
On Reel length	± 5 %
On Film width	± 4 mm

Reel & Packaging Specifications

Product Reference	15GP501	20GP501	20GP500	23GP501	23GP500
Thickness (μ)	15	20	20	23	23
Film width (mm)	500	500	500	500	500
Reel length (m)	2700	2420	2420	1750	1750
Recommended Pre-Stretch	+/- 230%	+/- 260%	+/- 260%	+/- 260%	+/- 260%
Cling	Inside	Inside	Inside	Inside	Inside
Core weight (kg)	1.04	1.04	1.04	1.04	1.04
Reel weight (kg GFN)	19.569	19.340	19.340	19.454	19.454
Pallet size	800 x 1200	800 x 1200	1000 x 1200	800 x 1200	1000 x 1200
Outside diameter (mm)	250	250	250	250	250
Inside core diameter (mm)	≥ 76	≥ 76	≥ 76	≥ 76	≥ 76
Palletization/nr of layers	2	2	2	2	2
Nr of reels/pallet	28	28	38	28	38
Pallet gross weight (kg)	548	542	735	545	491
Pallet net weight (kg)	519	512	695	516	464

Please contact us for more information or visit
www.signode.com

BS line

Optimum blown film for heavy duty loads



Introducing BS, the optimum blown film for high load stability, irregular shaped loads with excellent abrasion and scuff resistance.

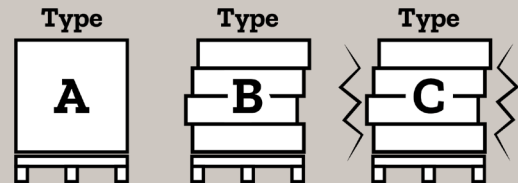
BS Line Benefits

- Consistent high performance stretchability
- Extremely versatile, can be used on all load types
- Superior toughness / puncture resistance
- Optimum elongation with very high load force
- Extra low noise
- Very high slip (very low COF)

Applications

- Up to 290% PPS stretch (1m => 3.9 m)
- Type A, B and C loads
- Easy loading / unloading of products

Pallet Load Types



Film Tolerances

Thickness Tolerance	+/- 10%
Core Protrusion	6 ± 3 mm
Tolerances on weight	± 5 %
On Reel length	± 5 %
On Film width	± 4 mm

Reel & Packaging Specifications

Product Reference	15BS501	17BS501	19BS501	22BS501	30BS501
Thickness (μ)	15	17	19	22	30
Film width (mm)	500	500	500	500	500
Reel length (m)	2700	2300	2110	1830	1350
Recommended Pre-Stretch	+/- 250%	+/- 250%	+/- 270%	+/- 270%	+/- 290%
Cling	Outside	Outside	Outside	Outside	Outside
Core weight (kg)	1.04	1.04	1.04	1.04	1.04
Reel weight (kg GFN)	19.569	18.928	19.381	19.459	19.569
Pallet size	800 x 1200	800 x 1200	800 x 1200	800 x 1200	800 x 1200
Outside diameter (mm)	250	250	250	250	250
Inside core diameter (mm)	≥ 76	≥ 76	≥ 76	≥ 76	≥ 76
Palletization/nr of layers	2	2	2	2	2
Nr of reels/pallet	28	28	28	28	28
Pallet gross weight (kg)	548	530	543	545	548
Pallet net weight (kg)	519	501	514	516	519

Please contact us for more information or visit
www.signode.com

BSH & BHH line

The heavy duty cast film



Introducing BSH & BHH, a cast alternative to blown film for heavy duty, irregular shaped and difficult pallets.

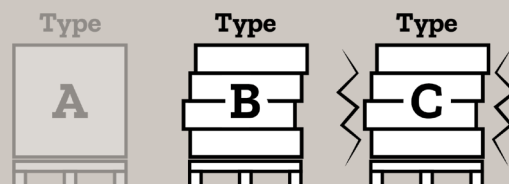
BSH & BHH Line Benefits

- Superior toughness / puncture performance
- One side cling / one side slip package
- Optimum elongation with similar load force to blown film
- Good clarity and optics
- Silent unwind

Applications

- Up to 270% PPS stretch (1m => 3.7 m)
- Type B and C loads
- Unstable, heavily sensitive loads
- Easy loading / unloading of products

Pallet Load Types



Film Tolerances

Thickness Tolerance	+/- 10%
Core Protrusion	6 ± 3 mm
Tolerances on weight	± 5 %
On Reel length	± 5 %
On Film width	± 4 mm

Reel & Packaging Specifications

Product Reference	15BSH501	17BSH501	19BSH501	22BHH501
Thickness (μ)	15	17	19	22 (BHH)
Film width (mm)	500	500	500	500
Reel length (m)	2000	2300	2110	1830
Recommended Pre-Stretch	+/- 230%	+/- 250%	+/- 270%	+/- 270%
Cling	Outside	Outside	Outside	Outside
Core weight (kg)	1.04	1.04	1.04	1.04
Reel weight (kg GFN)	14.765	18.928	19.381	19.459
Pallet size	800 x 1200	800 x 1200	800 x 1200	800 x 1200
Outside diameter (mm)	250	250	250	250
Inside core diameter (mm)	≥ 76	≥ 76	≥ 76	≥ 76
Palletization/nr of layers	2	2	2	2
Nr of reels/pallet	28	28	28	28
Pallet gross weight (kg)	532	530	543	545
Pallet net weight (kg)	494	501	514	516

Please contact us for more information or visit
www.signode.com

PXL line

Designed for light and crushable loads



Introducing PXL, a film specifically designed to provide optimal holding forces and pallet stability for light weight, fragile and crushable pallets.

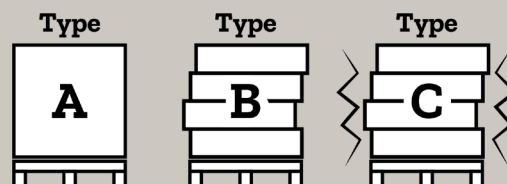
PXL Line Benefits

- Optimum elongation with controlled load containment
- Superior toughness
- Non migratory one side cling film
- Good cling for better load integrity
- High clarity application

Applications

- Up to 270% PPS stretch (1m => 3.7 m)
- Especially designed for crushable and light loads: light PET bottles, Tetra Brick, biscuits, crisps ...
- Easy loading / unloading of merchandise
- Optimisation / removal of tray / interleaving support

Pallet Load Types



Film Tolerances

Thickness Tolerance	+/- 10%
Core Protrusion	6 ± 3 mm
Tolerances on weight	± 5 %
On Reel length	± 5 %
On Film width	± 4 mm

Reel & Packaging Specifications

Product Reference	19PXL501	25PXL501
Thickness (μ)	19	25
Film width (mm)	500	500
Reel length (m)	2110	1600
Recommended Pre-Stretch	+/- 250%	+/- 270%
Cling	Inside	Inside
Core weight (kg)	1.04	1.04
Reel weight (kg GFN)	19.381	19.340
Pallet size	800 x 1200	800 x 1200
Outside diameter (mm)	250	250
Inside core diameter (mm)	≥ 76	≥ 76
Palletization/nr of layers	2	2
Nr of reels/pallet	28	28
Pallet gross weight (kg)	543	542
Pallet net weight (kg)	514	512

Please contact us for more information or visit
www.signode.com

UP line

Top quality cast film for industrial applications



Introducing UP, our original high performance cast film, up to 270% pre stretch on fast wrapping machines and for difficult unit loads.

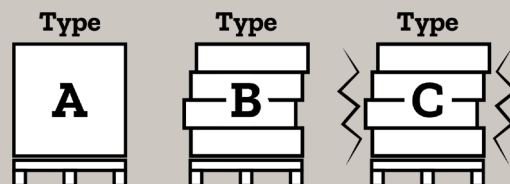
UP Line Benefits

- Consistent high performance stretchability
- One side cling film
- Low coefficient of friction
- Good clarity and optics
- Optimum machinability
- Silent unwind

Applications

- Up to 270% PPS stretch (1m => 3.7 m)
- Type A, B and C loads
- Easy loading / unloading of products

Pallet Load Types



Film Tolerances

Thickness Tolerance	+/- 10%
Core Protrusion	6 ± 3 mm
Tolerances on weight	± 5 %
On Reel length	± 5 %
On Film width	± 4 mm

Reel & Packaging Specifications

Product Reference	17UP501	17UP500	20UP501	20UP500	23UP501	23UP500	30UP501
Thickness (μ)	17		20		23		30
Film width (mm)	500		500		500		500
Reel length (m)	2300		2000		1750		1350
Recommended Pre-Stretch	+/- 250%		+/- 270%		+/- 270%		+/- 270%
Cling	Inside		Inside		Inside		Inside
Core weight (kg)	1.04		1.04		1.04		1.04
Reel weight (kg GFN)	18.928		19.340		19.454		19.569
Pallet size	800 x 1200	1000 x 1200	800 x 1200	1000 x 1200	800 x 1200	1000 x 1200	800 x 1200
Outside diameter (mm)	250		250		250		250
Inside core diameter (mm)	≥ 76		≥ 76		≥ 76		≥ 76
Palletization/nr of layers	2		2		2		2
Nr of reels/pallet	28	38	28	38	28	38	28
Pallet gross weight (kg)	530	719	542	735	545	739	548
Pallet net weight (kg)	501	680	512	695	516	700	519

Please contact us for more information or visit
www.signode.com

BH line

Made to endure and secure the most difficult pallets



Introducing BH, the perfect blown film for high performance applications and heavy duty loads.

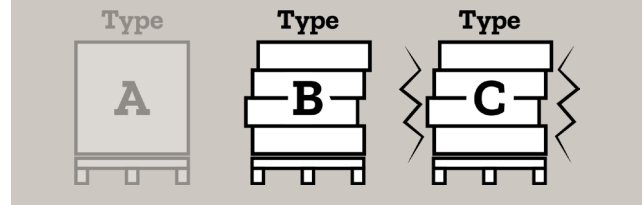
BH Line Benefits

- Superior toughness / puncture resistance
- Non migratory one side cling / one side high slip package
- Optimum elongation with very high load force
- Good clarity and optics
- Extra low noise
- Provides high load containment and stability

Applications

- Up to 310% PPS stretch (1m => 4.1 m)
- Type B and C loads
- Unstable heavy loads
- Irregular shaped loads
- Heavy bulk product load sensitivities

Pallet Load Types



Film Tolerances

Thickness Tolerance	+/- 10%
Core Protrusion	6 ± 3 mm
Tolerances on weight	± 5 %
On Reel length	± 5 %
On Film width	± 4 mm

Reel & Packaging Specifications

Product Reference	17BH501	19BH501	22BH501	30BH500	30BH501
Thickness (µ)	17	19	22	30	
Film width (mm)	500	500	500	500	
Reel length (m)	2300	2110	1830	1350	
Recommended Pre-Stretch	+/- 270%	+/- 290%	+/- 290%	+/- 310%	
Cling	Outside	Outside	Outside	Outside	
Core weight (kg)	1.04	1.04	1.04	1.04	
Reel weight (kg GFN)	18.928	19.381	19.459	19.569	
Pallet size	800 x 1200	800 x 1200	800 x 1200	800 x 1200	1000 x 1200
Outside diameter (mm)	250	250	250	250	
Inside core diameter (mm)	≥ 76	≥ 76	≥ 76	≥ 76	
Palletization/nr of layers	2	2	2	2	
Nr of reels/pallet	28	28	28	28	38
Pallet gross weight (kg)	530	543	545	548	744
Pallet net weight (kg)	501	514	516	519	704

Please contact us for more information or visit
www.signode.com

ST line

Superior performance



Introducing ST, a film specifically designed to provide optimal holding forces and pallet stability at the highest pre-stretch levels.

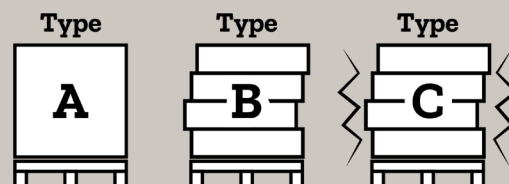
ST Line Benefits

- Consistent high performance stretchability
- Extremely versatile, can be used on all load types
- High levels of flexibility
- Designed to ensure easy off-loading of product
- Up to 300% PPS depending on conditions
- High holding force
- Excellent performance in chilled/frozen product applications

Applications

- Up to 300% PPS stretch (1m => 4 m)
- Type A, B and C loads
- Easy loading / unloading of products

Pallet Load Types



Film Tolerances

Thickness Tolerance	+/- 10%
Core Protrusion	6 ± 3 mm
Tolerances on weight	± 5 %
On Reel length	± 5 %
On Film width	± 4 mm

Reel & Packaging Specifications

Product Reference	15ST501	17ST501	20ST501	23ST501
Thickness (μ)	15	17	20	23
Film width (mm)	500	500	500	500
Reel length (m)	2700	2300	2000	1750
Recommended Pre-Stretch	+/- 280%	+/- 300%	+/- 300%	+/- 300%
Cling	Inside	Inside	Inside	Inside
Core weight (kg)	1.04	1.04	1.04	1.04
Reel weight (kg GFN)	19.569	18.928	19.340	19.454
Pallet size	1200 x 800	1200 x 800	1200 x 800	1200 x 800
Outside diameter (mm)	250	250	250	250
Inside core diameter (mm)	≥ 76	≥ 76	≥ 76	≥ 76
Palletization/nr of layers	2	2	2	2
Nr of reels/pallet	28	28	28	28
Pallet gross weight (kg)	548	530	542	545
Pallet net weight (kg)	519	501	512	516

Please contact us for more information or visit
www.signode.com

High speed film

Ultimate performance stretch films



Introducing HSB, the ultimate blown film for high speed machines and high production outputs.

HSB 25 μ blown film

Reel & Packaging Specifications

Product Reference	23HSB501
Film width (mm)	500
Reel length (m)	1600
Recommended Pre-Stretch	300%
Cling	Outside
Core weight (kg)	1.04
Reel weight (kg GFN)	19.340
Pallet size	800 x 1200
Outside diameter (mm)	250
Inside core diameter (mm)	≥ 76
Palletization/nr of layers	2
Nr of reels/pallet	28
Pallet gross weight (kg)	542
Pallet net weight (kg)	512

Film Tolerances

Thickness Tolerance	+/- 10% tolerance
Core Protrusion	6 \pm 3 mm
Tolerances on weight	$\pm 5 \%$
On Reel length	$\pm 5 \%$
On Film width	± 4 mm

HSB film Benefits

- Ultimate toughness / puncture resistance
- Non migratory one side cling / one side high slip package
- Optimum elongation with very high load force
- Good clarity and optics
- Extra low noise

Applications

- Up to 300% PPS stretch (1m => 4 m)
- Especially designed for type B and C loads
- Easy loading / unloading of products
- Recommended for highspeed machines/ high production outputs

Introducing HP, the original cast film for superior performance and consistent quality, on high speed equipment.

HP 23 μ cast film

Reel & Packaging Specifications

Product Reference	23HP500
Film width (mm)	500
Reel length (m)	1750
Recommended Pre-Stretch	270%
Cling	Differential
Core weight (kg)	1.04
Reel weight (kg GFN)	19.454
Pallet size	1000 x 1200
Outside diameter (mm)	250
Inside core diameter (mm)	≥ 76
Palletization/nr of layers	2
Nr of reels/pallet	38
Pallet gross weight (kg)	739
Pallet net weight (kg)	700

Film Tolerances

Thickness Tolerance	+/- 10% tolerance
Core Protrusion	6 \pm 3 mm
Tolerances on weight	$\pm 5 \%$
On Reel length	$\pm 5 \%$
On Film width	± 4 mm

HP film Benefits

- Consistent high performance stretchability
- Non migratory two side cling film
- Good clarity and optics
- Silent Unwind
- Optimum machinability

Applications

- Up to 270% PPS stretch (1m => 3.7 m)
- Type A, B and C loads
- Easy loading / unloading of products

Thin film

Reduced thickness for standard applications



Introducing TF, a 12 μ cast film designed for semi-automatic machines for economic performance on type A & B loads.

TF 12 μ cast film

Reel & Packaging Specifications

Product Reference	12TF501
Film width (mm)	500
Reel length (m)	3340
Recommended Pre-Stretch	150%
Cling	Inside
Core weight (kg)	1.04
Reel weight (kg GFN)	19.377
Pallet size	800 x 1200
Outside diameter (mm)	250
Inside core diameter (mm)	≥ 76
Palletization/nr of layers	2
Nr of reels/pallet	28
Pallet gross weight (kg)	543
Pallet net weight (kg)	513

Film Tolerances

Thickness Tolerance	+/- 10% tolerance
Core Protrusion	6 ± 3 mm
Tolerances on weight	± 5 %
On Reel length	± 5 %
On Film width	± 4 mm

TF film Benefits

- Excellent Clarity and Optics
- Optimum machinability
- Silent unwind

Applications

- Up to 100% PPS stretch (1m => 2.5 m)
- Type A and B loads
- Easy loading / unloading of products
- Multipurpose product unitization

Introducing MIMAX, a 9 μ technical cast film dedicated to semi-automatic machines for optimum cost effectiveness.

MIMAX 9 μ cast film

Reel & Packaging Specifications

Product Reference	MIMAX501
Film width (mm)	500
Reel length (m)	4440
Recommended Pre-Stretch	50%
Cling	Inside
Core weight (kg)	1.04
Reel weight (kg GFN)	19.322
Pallet size	800 x 1200
Outside diameter (mm)	250
Inside core diameter (mm)	≥ 76
Palletization/nr of layers	2
Nr of reels/pallet	28
Pallet gross weight (kg)	541
Pallet net weight (kg)	512

Film Tolerances

Thickness Tolerance	+/- 10% tolerance
Core Protrusion	6 ± 3 mm
Tolerances on weight	± 5 %
On Reel length	± 5 %
On Film width	± 4 mm

MIMAX film Benefits

- Stiff film
- Excellent mechanical properties
- One side cling, one side slip

Applications

- Up to 50% PPS stretch (1m => 1.5 m)
- Type A, B and C loads
- Designed to be used on semi-automatic machines with core brake and / or can be pre-stretched up to 50%

Additional Products

Available on request

PRODUCTS

SERVICES

INTEGRATION

AUTOMATION



pack



bundle



unitize



warehouse



transport



Interested in more specific dimensions or items?

■ Film width

Find the correct width for your needs, with choices between: 250mm, 300mm, 500mm, 750mm and 1000mm on certain product ranges.

■ Coloured films

We offer specific white and grey film product ranges, which help to prevent light exposure and increase your product confidentiality during transport.

■ Narrow films

Our Narolite range is specifically dedicated to banding applications, in both logistic and industry.

■ Macro-perforated films

Our Climawrap range is dedicated to industrial applications, where breathability is mandatory to deter excess moisture & temperature regulation.

■ Top Sheets

We produce 50μ top sheets with blown extrusion for superior toughness and load protection, exclusively for automated lines.

■ UV stabilized films

We produce UV stabilized stretch films in transparent grey or white for external storage

Please contact us for more information or visit www.signode.com