



Stretch

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Stretch

ROBOPAC 

**bpi.stretchfilms**

M. J. MAILLIS UK
 **M. J. MAILLIS GROUP**

Understanding Different Types of Film

Blown Stretch Films

Blown stretch films are typically used for heavier irregular loads and applications requiring excellent puncture and tear resistance.

Additives are used to provide excellent cling and superior load stabilisation characteristics.

As a result, blown stretch films can be noisy as reels are unwound.

See page 119 for blown stretch films.

Cast Stretch Films

Cast stretch films provide a smooth surface with excellent optics, gloss, strength and cling without additives.

See page 120 for hand-applied cast stretch films and page 122 for our machine cast stretch films.

Pre-Stretch Films

Pre-stretching involves stretching the film during manufacture. The process can increase film strength, improve load stability, reduce the volume of stretch wrap film needed and subsequently save on stretch film packaging costs.

We offer a range of pre-stretched stretch films designed to achieve optimal pre-stretching results that can be used with stretch wrap machines and manual application operations.

Key benefits experienced from using pre-stretched films include:

- Reduced wastage
- Faster wrapping
- Improved health and safety for users

See page 122 for pre-stretch films.

Selecting The Best Stretch Film For Your Requirements

When selecting stretch films consider the following:

Performance

Selecting a stretch film that provides the right yield strength and performance for the loads being wrapped is crucial. The yield strength denotes the amount of stress a stretch film can withstand without permanently having plastic deformation. Prior to reaching the yield point, a stretch film will elastically deform but return to its original shape once the stress is removed.

We've categorised our stretch films by strength:

	Hand-Applied Blown or Cast Film (mu)	Hand-Applied Pre-Stretch Film (mu)	Machine Film (mu)
Extra Light		6	12
SuperLight			15
Light	11	11	17
Medium	14		20
Heavy	16		23
Super Heavy	19		30
Ex Super Heavy	28		

Products

Consider the products being wrapped. Also look at the weight load (typically per pallet), the load profile as described below, and the transit process the load will experience.

Time, Use and Cost Use

Hand wrapping is best suited for smaller or sporadic stretch film wrapping requirements. Introducing machine wrapping may ultimately save time, resources and packaging materials.

Overlapping

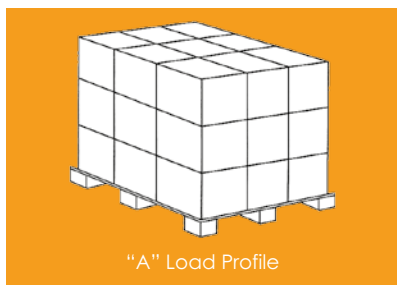
This is a technique for covering the top of your pallet using polythene top sheets (see page 112 for top sheets). This protects your products and provides a downward force on the pallet load. When overlapping hand applied films, it is recommended users allow up to a 50% overlap. If using machine applied films, users should allow a 50 mm overlap, regardless of the film width.

Banding

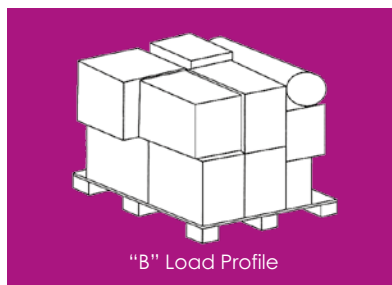
This refers to applying multiple wraps of stretch film to a particular area of a pallet to reinforce the load or band multiple units together.

Neckdown

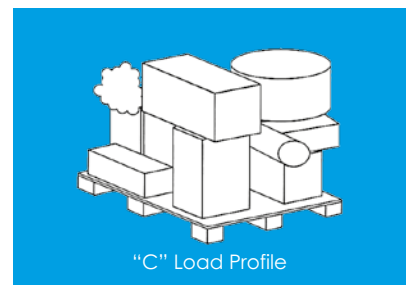
This happens when a film loses its dispensing roll width and narrows down while being stretched. Neckdown reduces the coverage each wrap provides thereby making it likely that more wrap rotations and more film will be needed to wrap a load or pallet.



"A" Load Profile



"B" Load Profile



"C" Load Profile

Are You Using The Best Film For Your Requirements?

Before selecting a stretch film, we'd recommend you measure your current usages and review your application.

The best way to calculate your usage is to look at your stretch yield in metres and your yield costs in weight.

This enables you to calculate the effectiveness of your stretch wrap by calculating the cost to wrap a pallet.

Still not sure? Contact us to review your requirements.

Hand-Applied Stretch Films

Hand-applied stretch films are used for manual stretch wrap packaging application.

All hand-applied stretch films are supplied on standard cores for use with hand-applied applicators or extended cores.

- Always place the outside of the film to the pallet surface
- Secure film to the pallet before wrapping by tying to the pallet base
- Always ensure the film covers the base of the pallet and the bottom layer of the load
- Wrap the bottom of the pallet at least twice to secure load
- Overlap film by 30% to 50%
- Depending on the weight of the load, consider wrapping the pallet twice
- To maximise strength use the film horizontally to create a 'strap'

Hand-Applied Blown Stretch Film

Manual stretch wrapping for heavy or irregular loads.



Clear Films

Product Code	Core	Strength	Size (mm x m)	Rolls Per Case	Pallet Qty
001217	Standard	Light	400 x 300	6	432
000437	Standard	Medium	400 x 300	6	432
000092	Extended	Medium	400 x 300	6	324
003152	Standard	Medium	500 x 300	6	270
000247	Standard	Heavy	400 x 300	6	432
001980	Extended	Heavy	400 x 300	6	300
003156	Standard	Heavy	500 x 300	6	270
004821	Standard	Super Heavy	400 x 300	6	336
000897	Standard	Extra Heavy	400 x 200	6	336

Black Films

Product Code	Core	Strength	Size (mm x m)	Rolls Per Case	Pallet Qty
001140	Standard	Heavy	500 x 250	6	240
256303	Standard	Super Heavy	500 x 250	6	270

Hand-Applied Blown Pre-Stretched Film

Reduced waste with increased strength and better load stability.

Pre-Stretch Films

Product Code	Core	Strength	Size (mm x m)	Rolls Per Case	Pallet Qty
000695	Standard	Extra Light	400 x 300	11	495
003525	Extended	Extra Light	400 x 300	11	495
000698	Extended	Extra Light	400 x 600	6	240
231535	Extended	Extra Light	400 x 600	Bulk	240
000701	Standard	Extra Light	500 x 600	6	270



Stretch

Hand-Applied Cast Stretch Films

A strong stretch film without additives, that clings only to itself and is quieter to use than other films. Prevents products on pallets from moving in transit. Cast stretch wrap is suitable for food products.

Hand-Applied Cast Stretch Films

Product Code	Core	Strength	Size (mm x m)	Rolls Per Case	Pallet Quantity
000355	Extended	Medium	400 x 300	6	384
002172	Standard	Medium	400 x 300	6	378
002133	Standard	Medium	500 x 300	6	270
000195	Standard	Heavy	400 x 300	6	378
000196	Standard	Heavy	500 x 300	6	270
000350	Extended	Heavy	400 x 300	6	300
001943	Standard	Super Heavy	400 x 300	6	336
007919	Standard	Super Heavy	500 x 300	6	270
007918	Standard	Extra Super Heavy	500 x 150	6	270

don't forget...

SEE PAGE
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Kraft
ribbed paper



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Mail Lite®
White & Gold



SEE PAGE
111
Heat
sealers



SEE PAGE
142
Glue
gun



Demonstrating savings on stretch wrap

At Macfarlane Packaging we help customers reduce cost and material usage throughout their entire packaging range

We conducted a stretch health check with our customer who had recently invested in 5 core break stretch wrap machines but were using a power pre film, this meant that the 24 micron cast film they were using did not stretch as well as it should. They were using 705 grams of film to wrap each pallet.

We ran a comparison with two other films - 7 and 9 micron. Tests recommended that we replaced their existing product with

the 9 micron Pre Stretch performance film which offered a much better load stability. This switch resulted in a yield improvement of **314% - wrapping 588 pallets per tonne vs 142 pallets** per tonne with the existing stretch wrap. The weight of stretch used on each pallet dropped to 170 grams, this offered an overall saving of 56% on stretch wrap spend.

The stretch health check not only took cost out of the operation but reduced waste packaging, improved carbon footprint and increased productivity – less roll changes were required on the stretch machine.

What could a stretch health check deliver for you?

Talk to us about a more sustainable supply chain

Phone: **0800 2888 444** Online: www.macfarlanepackaging.com



Hand-Applied Stretch Film Dispenser

For use with 400 or 500mm width films and 38 or 50mm ID Cores.
Suitable for use with blown or cast films.

Product Code	Description	Unit
001044	Hand-Applied Stretch Film Dispenser	1

Handywrap Starter Kit

Product Code	Application	Unit
004443	Use with standard core cast stretch film 100mm x 150m	20 rolls + 2 Dispenser handles



Handywrap Mini Reel

Easy application for bundling and wrapping small items.

Cast

Product Code	Core	Strength	Size (mm x m)	Rolls Per Case
003793	Extended	Light	100 x 150	40

Blown

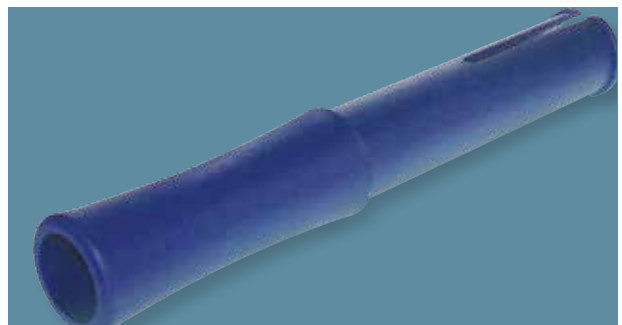
Product Code	Core	Strength	Size (mm x m)	Rolls Per Case
006910	Extended	Medium	100 x 150	40



Stretch

Handywrap Applicator Handle

Product Code	Application	Unit
003789	Use with standard and extended handywrap mini reels	1



Machine Applied Stretch Films

Machine applied stretch films are extremely strong and versatile, saving time, resources and packaging materials for high performance applications requiring higher tensile strengths.

These films have excellent puncture resistance, good cling, slip and load retention.

Cast stretch wrap films provide a smooth surface with excellent clarity, gloss, strength and cling, without additives. Machine-applied stretch films are suitable for use on power pre-machines up to 250% stretch.



Power Pre-Cast Stretch Film

Smooth-action clarity, gloss, strength and cling, with no additives.

Product Code	Core (mm)	Strength	Stretch (%)	Size(mm x m)	Pallet Qty
000686	75	Extra Light	250	500 x 2800	40
275639	75	Super Light	250	500 x 2100	46
001560	75	Light	200	500 x 2000	46
000435	75	Light	250	500 x 2000	46
002468	75	Medium	200	500 x 1700	46
000436	75	Medium	250	500 x 1700	46
009095	75	Heavy	200	500 x 1500	46
000438	75	Heavy	250	500 x 1500	46
001746	75	Super Heavy	200	500 x 1100	46
000439	75	Super Heavy	250	500 x 1100	46

Black Cast Stretch Film

Up to 200% stretch.
Suitable for use on core brake and power pre-machines.

Product Code	Core (mm)	Strength	Size (mm x m)	Pallet Qty
001232	75	Heavy	500 x 1500	46

Machine Pre-Stretch Film

Faster wrapping, with improved load holding and reduced waste.

Product Code	Core (mm)	Strength	Size (mm x m)	Pallet Qty
249346	75	Light	420 x 2100	36

Contact us

For a free trial

Ecoplat Base Stretch Wrapping Machine

- Entry level machine
- Removes stress and strains of manual pallet wrapping
- 1650mm turntable
- 2200mm wrap height



Masterplat PGS Power-Pre Stretch Wrapping Machine

- Entry level Power Pre-Stretch machine
- Suitable for use with light, crushable goods
- Reduce film usage
- Improve pallet stability
- For use with 250% Power Pre-Stretch Film
- 1650mm Turntable
- 2200mm Wrap Height



Rotoplat 508PDS Stretch Wrapping Machine

- Suitable for use with light, crushable goods
- 1650mm Turntable
- 2200mm Wrap Height
- For use with 250% Power Pre-Stretch Film
- Touch screen control panel
- 12 program pre-set



Robot Master PDS Power-Pre Stretch Wrapping Machine

- Suitable for use with light, crushable goods
- For use with 250% Power Pre-Stretch Film



	Ecoplat Base Stretch Wrapping Machine	Masterplat PGS Power-Pre Stretch Wrapping Machine	Rotoplat 508PDS Stretch Wrapping Machine	Robot Master PDS Power-Pre Stretch Wrapping Machine
Larger Turntable Options Available	N	Y	Y	N/A
Higher Wrap Height Options Available	Y	Y	Y	Y
2000kg Turntable Capacity	Y	Y	Y	N/A
Automatic Pallet Height Sensor	Y	Y	Y	Y
Indexed Stop Position	Y	Y	Y	N/A
Variable Carriage Speed	Y	Y	Y	Y
Variable Rotation Speed	Y	Y	Y	Y
Variable Tension	Y	Y	Y	Y
Power-Pre Stretch	N/A	250%	250%	250%
No of Pallets per Day	Up to 20	20 or more	20 or more	20 or more
Film Type	Standard / Pre-Stretch	Power Pre-Stretch	Power Pre-Stretch	Power Pre-Stretch



OneWrap Semi-Automatic Pallet Stretch Wrapper

- A sleek and modern panel with easy read icons.
- 10 programs available to allow for a consistent wrapping cycle for a given product.
- Top sheet application cycle with programmable amount of carriage descent before pause (time delay).
- Cycle can be stopped at any point and then continued, useful for corner protection application.



PR202 Power Pre Semi-Automatic Stretch Wrap Machine

- Digital control panel
- Wrap pattern program memory
- Key lock facility
- Maximum pallet load of 2000kgs
- For use with 250% power pre-stretch film
- 1650mm turntable standard
- 2100mm wrap height standard



BeeWrap Advanced Semi-Automatic Mobile Pallet Wrapper

- For pallets of height up to 2100 mm
- Needs only 1150 mm free space around the load to operate
- Up to 300 pallets without recharging
- Film carriage with clutch (mechanical or electromagnetic) or powered prestretch (200%)



Contact us
For a
free trial

	OneWrap Semi-Automatic Pallet Stretch Wrapper	PR202 Power Pre Semi-Automatic Stretch Wrap Machine	BeeWrap Advanced Semi-Automatic Mobile Pallet Wrapper
Larger Turntable Options Available	Y	Y	N/A
Higher Wrap Height Options Available	Y	Y	N
Turntable Capacity	2400kg	2000kg	N/A
Automatic Pallet Height Sensor	Y	Y	Y
Variable Carriage Speed	Y	Y	Y
Variable Rotation Speed	Y	Y	Y
Variable Tension	Y	Y	Y
Power-Pre Stretch Capacity	200%	250%	200%
No of Pallets per Hour	15	15	15