

Plastex Polypropylene & Polyester strapping products



www.plastexstrapping.co.uk





and the environment

As a worldwide supplier of plastic tensional

- strapping and vinyl matting, with manufacturing plants both in the UK & USA, Plastex conduct an ever improving policy of reducing the environmental impact of their
- 90% recycled material used
- in black hand strap
- All production scrap is
- reprocessed for our own use.
- The company actively encourages the
- shipping of palletised unboxed products -
- cutting down waste, time & money.

R.E.A.C.H - Registration, Evaluation, Authorisation and Restriction of Chemical

The European Community R.E.A.C.H regulation (2007) gives manufacturers the responsibility of providing high level human and environmental protection from the use of chemicals in manufacturing.

Plastex does not use any substances currently included on the SVHC (Substances of Very High Concern) list under R.E.A.C.H.





Plastic Extruders Limited known globally in the trade as

Plastex

Plastic Extruders Ltd was founded in 1962 and is a second generation family run business. A team of long standing employees maintain consistent levels of service and efficiency ...ensuring the highest quality strapping.



PETER O'SULLIVAN Sales Director

DAVID O'SULLIVAN Managing Director

^e Plastex are proud to be the UK's largest trade only manufacturer of polypropylene and polyester strapping. Our advanced production techniques guarantee consistant tensional strapping for use in the most demanding fully automated machine environs. The company is committed to supplying the trade, and in turn, their end customer, with the most comprehensive range of stock and bespoke strapping available anywhere today. 9

Working together with the packaging industry

SUPPLY TO THE TRADE - SECOND TO NONE

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We manufacture strapping

and that makes all the difference.

Plastex manufacture sufficient strapping to encompass the globe once every 18 days.

When you buy our products you are also investing in our extensive knowledge that comes from over 45 years of designing, testing and manufacturing strapping for a diverse range of applications.

Expertise we readily apply to ensure all our trade distributors supply precisely the right strapping, with the right specifications for their customers.

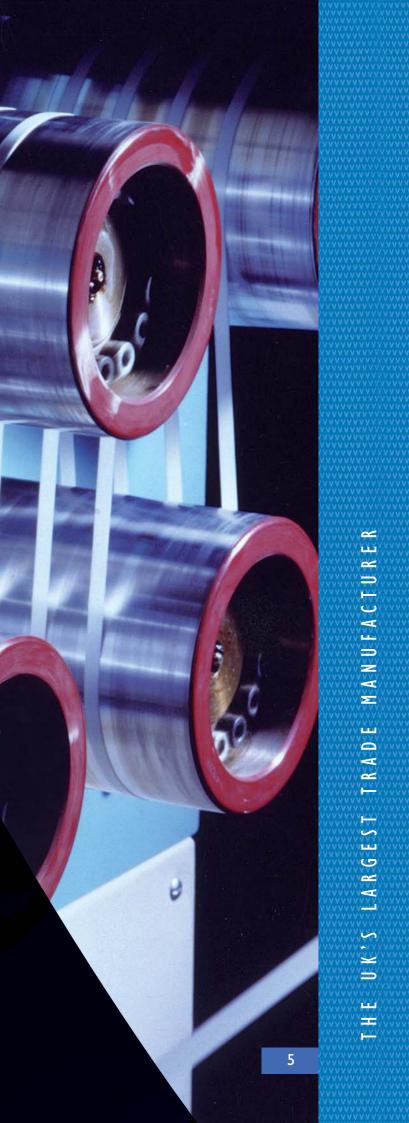
Quality beyond question

- The company integrate ISO accreditation into all manufacturing processes.
- In 1993 BS5750 was obtained - followed by a continued policy of striving for the highest production standards.
- Today, ISO 9001:2008 also ensures a continual improvement system.





2



Our role is to get it right for you

Trade your thoughts and talk to us.

Our sales and technical staff are on the end of the phone should you require assistance when ordering and specifying for your customer needs. It goes without saying that confidentiality remains between Plastex and you - the trade distributor.

We'll test an existing strap to ensure your customer gets the right straþþing.

Submit a 1 metre length of any strapping and we will test it to ensure the correct grade is specified for the application, ensuring 100% efficiency.





Polypropylene (PP)

Being particularly lightweight, polypropylene is ideal for ease of carrying and benefits from high elongation properties that enable the strap to contract around packages that may settle.

Applications include: corrugated, food, timber, newspaper bundles, light and medium weight packages.



Your customer's requirements will either be:

General Purpose Strapping

Plastex stock an extensive range of 'off the shelf' standard polypropylene rolls to suit a large proportion of current industry needs, including both hand and automatic core strapping. All available ex-stock.

Working with Distributors



Bespoke Strapping

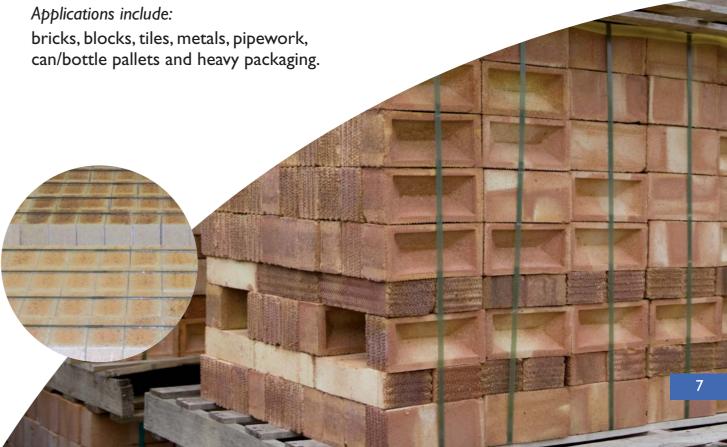
Strapping can be manufactured to suit a customer's specific requirements. Both polypropylene and polyester strap can be custom printed.



When and where is Polypropylene & Polyester strapping used?



With high tensile strength and low creep for rigid loads, Polyester provides an ideal, hazard free alternative to steel strapping.



Plastex can deliver direct to your customer, utilising your paperwork with discretion and professionalism. Our sales and technical staff will also joint visit with distributors to assist in strap specific challenges.

Why select Polypropylene strap?

PROPERTY

Low density **High rigidity Excellent chemical resistance** Thermoplastic re-melting **Resistant to abrasion & ageing**

BENEFIT

Easily carried Works on automatic machines Does not corrode, mark or rust Recyclable Long life/will not damage products Black strapping is also resistant to UV degradation

Light duty • Flexible • Economical

Breaking Strength

The following is for example purposes only. Many factors can affect the result:

The type of package	- Rigid/compressible
being strapped	- Sharp/round edges
	- Friction between items
The method of	- Internal/export
transportation	- Palletised/loose
The type of seal	- Plastic buckle/metal seal

- Heat/friction seal Refer tool manufacturer for seal efficiency Safety factor 1.5 - 2.0 of weight load

As a rule of thumb; a safety factor between 1.5 & 2.0 is desired. Total load weight = 500 kg4 straps each of 300 kg breakload = 1200 kgSeal efficiency 75% (Friction weld) = 900 kg

Safety factor = 900/500 = 1.8

(between 1.5 and 2.0, so should be acceptable). Due to the many parameters that can affect the result, each unitisation can require different amounts and breaking strength of strapping. The final specification is the responsibility of the applicator.







Polypropylene can be specified for any number of uses, the most widely applied being for unitising, bundling, stabilising, preventing breakage in transit and security, whilst minimising additional package weight.

Composition

Extruded polypropylene homopolymer manufactured in an ISO 9001: 2008 environment.

Tensile Strength

Polypropylene strap is manufactured to strict dimensional accuracy with precision winding, straightness and high tensile strength. Machine grade polypropylene is purpose-made for fully automated packaging lines.

The strap however, can only be as strong as the join used to secure - it is therefore vital that the correct method of joining a strap, for its given weightload, is used.

Joining Methods

Either by hand tool manually with metal buckles or a range of seals, friction weld joint, or heat sealed. Small packages can be secured using plastic buckles.



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Hand Grade Polypropylene strapping

Available in many different sizes and colours on either cardboard cores or plastic reels. Designed to be applied by hand or with a range of joining tools.







Available with immediate ex-stock delivery to the trade only.

Hand Grade

Width x Thickness	Average Breaking Strength	Meterage	Colour	Core Sizes Available
12.0 × 0.50	135	2,000	Black	Plastic Reel Only
12.0 × 0.63	165	I,500	Black	Plastic Reel Only
12.0 × 0.65	190	I,500	Black	Plastic Reel Only
12.0 × 0.70	205	I,300	Black	Plastic Reel Only
12.0 × 0.76	235	1,200	Black	Plastic Reel Only
12.0 × 0.80	260	I,000	Black	Plastic Reel Only
12.5 × 0.86	300	I,000	Black	Plastic Reel Only
12.5 × 0.86	300	I,000	Yellow	Plastic Reel Only

Machine Grade Polypropylene strapping









Machine Grade

Width x Thickness	Average Breaking Strength
9.0 x 0.55	100
12.0 × 0.55	125
12.0 × 0.55	125

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8

Available Ex-Stock

Specifications at a glance:		
Width	5 - 19mm	
Thickness	0.35 - 1.0mm	
Quality	Hand grade to Fully Automatic	
Elongation	14 - 20%	

Available Ex-Stock

Meterage	Colour	Core Sizes Available
4,000	White	200×190
3,000	Blue	200×190
3,000	White	200×190

MACHINE GRADE OR HAND GRADE

Why select Polyester strap?

PROPERTY

BENEFIT

High rigidity	Works in au
Low creep	Maintains te
UV resistant	Outdoor ap
Orientates well	Very high te
Elastic memory	To aid strap
Good temperature resistance	Reducing ag
Toughness and impact resistance	Does not sp
Excellent chemical resistance	No corrosio
Transparent gloss appearance	Quality app
Value	Equivalent c

Polyester strap is predominently used in the heavy duty sector of packaging - whether applied by hand or machine. It is polyester's strength and robust properties that warrant its continuous use.

Composition

Extruded thermoplastic polyester manufactured in an ISO 9001: 2008 Environment.

Tensile Strength

Polyester has a very high tensile strength, which combined with a low creep factor enables excellent retention of applied load. At the same time ease of application and subsequent disposal generates a fast and highly efficient packaging process for either manual or automated use.

Joining Methods

Either by hand tool with metal buckles or seals, or friction welds, or heat sealed.

Works in automatic machinery
Maintains tension
Outdoor applications
Very high tensile strength
To aid strap tension even in packs that settle/shrink
Reducing ageing effects/rusting
Does not split easily
No corrosion, non toxic, no dust or hairs
Quality appearance. Label/packaging visibility
Equivalent cost per linear metre is less expensive than steel strapping

Breaking Strength

The following is for example purposes only. Many factors can affect the result:

The type of package being strapped	Rigid/compressibleSharp/round edgesFriction between items
The method of transportation	Internal/exportPalletised/loose
The seal strength of Refer tool/machine manufacturer for seal efficiency	Plastic buckle/metal seaHeat/friction seal
Safety factor	1.5 - 2.0 of weight load

As a rule of thumb; a safety factor between 1.5 & 2.0 is desired. Total load weight = 800 kg 6 straps each of 300 kg breakload = 1800 kg Seal efficiency 75% (Friction weld) = 1350 kg

Safety factor = 1350/800 = 1.7

(between 1.5 and 2.0, so should be acceptable). Due to the many parameters that can affect the result, each unitisation can require different amounts and breaking strength of strapping. The final specification is the responsibility of the applicator.









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Polyester strapping for hand & machine applications

Available in a variety of widths and thicknesses in plain or embossed textured finishes. Polyester contours well to aid strap tension, while providing high rigidity and low creep factors.

Hand Applications





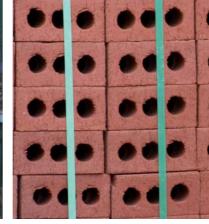
Polyester's high tensile strength and impact resistance make it ideal for stabilising and palletising in bottling plant & food processing applications, where a non corrosive and non toxic strap is essential.



Machine Applications



Machine grade polyester is designed to run through large arch machines in industries where heavy duty strapping is required, especially when a machine incorporates a press - as polyester strapping has high elasticity properties enabling it to move with the package.





Remember, un-boxed orders save money as well as the environment

14



Specifications at a glance:		
Width	9 - 32mm	
Thickness	0.4 - 1.5mm	
Break Strength	200 - 1500kg	
Elongation	10 - 15%	
Colours	Black, Clear, Green White, Red, Yellow Orange, Blue	

Custom Printed Strapping

Available on both Polypropylene and Polyester strapping.

Benefits:

SECURITY

ADVERTISING

DISTRIBUTION

QUALITY CONTROL

Printed strap not only improves the appearance of goods being strapped, it also offers a valuable marketing tool for the end user.

Benefits of supplying printed strap include:

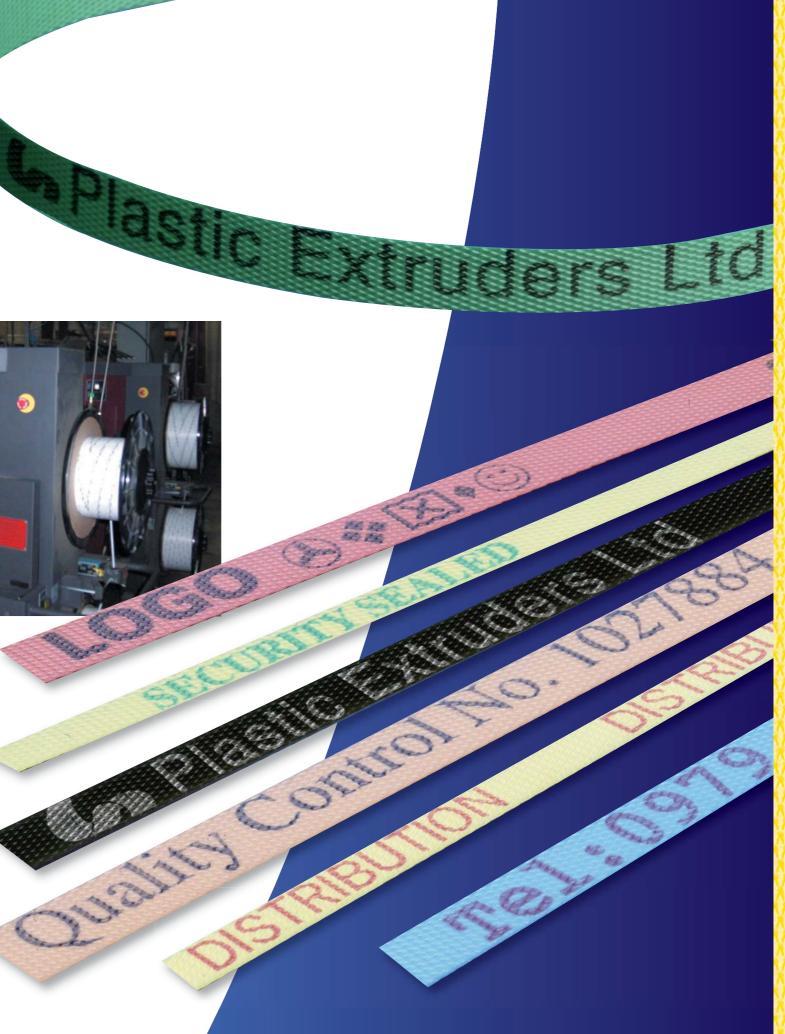
- · Improved security and visual awareness of consignment tampering.
- Enhanced presentation and brand identification.
- Practical way of distinguishing and coding packages.
- Can be used with manual, semi automatic and fully automated processes.



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Printing process is in single colour with a choice of standard ink colours.

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CUSTOM PRINTED STRAPPING

Strapping ancillaries

Hand Tools

Plastex offer a comprehensive range of hand tools from one and two piece tools, for use with 12-16mm strapping. All tools are supplied ex-stock and are backed by a full warranty.

Seals & buckles

A large range of plastic or metal buckles, and a full range of metal seals for most tools are available ex-stock.





Edge Protectors

APEX Individual rigid plastic edge protectors are available in two sizes.





Pallet Probes (Pal-probes)

A quick and easy method to pass strapping under a pallet. Ideal for use in confined spaces.



Vynaband

Supplied in continuous reel form, of 20 loops, providing a quick and reusable method of stabilising pallet loads for internal transportation. Standard loop, red colour, 3.5m circumference stretching up to 4.5m.



Band & Buckle

Plastex manual strap is also available in various 'easy to use' dispenser kits incorporating metal or plastic buckles dispensing from the outside of the coil in PP and PET.



Ejtex

200 multi-purpose protectors in continuous reel form, supplied in a handy self-dispensing carton.

Plastex Matting

Plastex matting products are widely used throughout the packaging industry, delivering a range of health & safety benefits.

Anti-fatigue matting and flooring range includes:



Tuff Spun An economical anti-fatigue foam matting.





Zed Land Patented foam construction with ESD properties.





Zed Tred Heavy duty ribbed surface on a high density foam.

Anti-fatigue matting with slip resistant properties include:





Reducing slips and standing fatigue at work.

Vynagrip Modules

Heronair A hard wearing and versatile work horse.

For more information please contact Plastic Extruders Ltd. Sales +44 (0)1268 571116





Plastex matting and strapping solutions FOR THE PACKAGING INDUSTRY

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Plastex Polypropylene & Polyester STRAPPING PRODUCTS



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