





Plastic
Extruders Ltd.


plastex





Plastex 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 production.

- Up to 90% of material recycled in black hand strap manufacture.
- 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 Substances*

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

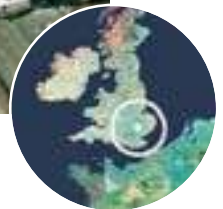
Plastex

Plastic Extruders Ltd was founded in 1962 and has since grown through two generations of family run manufacturing, taking great pride in its long serving employees who in turn, take personal responsibility for maintaining unprecedented levels of service and efficiency ...**ensuring the highest quality strapping is distributed worldwide, on time everytime.**




PETER O'SULLIVAN
Sales Director

DAVID O'SULLIVAN
Managing Director



“Plastex are proud to be the UK's largest trade only manufacturer of polypropylene and polyester strapping, with our advanced production techniques guaranteeing consistent 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.”



Working together with the
packaging industry

SUPPLY TO THE TRADE - SECOND TO NONE

OVER 50 YEARS EXPERTISE TO THE TRADE

THE UK'S LARGEST TRADE MANUFACTURER

We manufacture strapping and that makes all the difference.

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

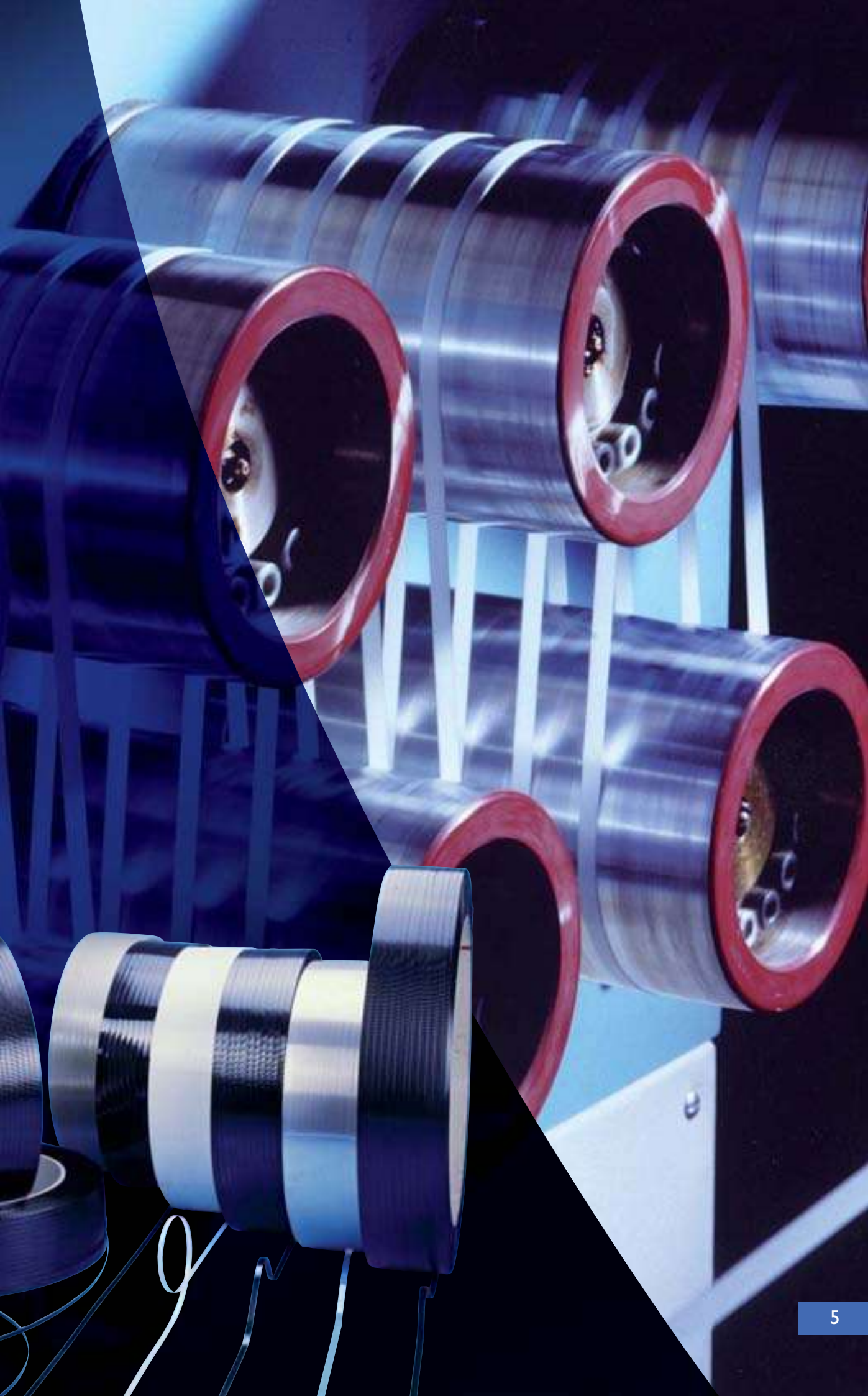
When you buy our products you are also investing in our extensive knowledge that comes from over 45 years of designing, testing and manufacturing strapping for a diverse range of applications.

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.





THE UK'S LARGEST TRADE MANUFACTURER

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 strapping.

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.



When and where is



Your customer's requirements will be either:

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.

Bespoke Strapping

Strapping can be manufactured to suit a customer's specific requirements. Furthermore, polypropylene and polyester strap can be custom printed for corporate identity or many other reasons.



Working with Distributors

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



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.

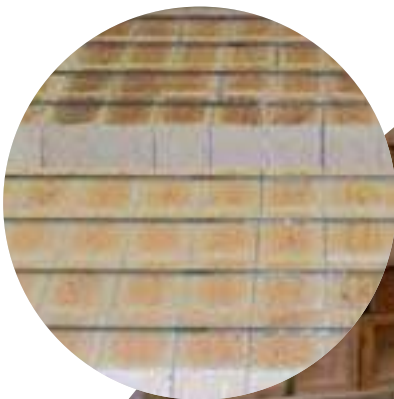
Polypropylene & Polyester strapping used?

Polyester (PET)

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

Applications include:

bricks, blocks, tiles, metals, pipework, can/bottle pallets and heavy packaging.



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

Polypropylene can be specified for any number of uses, the most widely applied being for unitising, bundling, stabilising, preventing breakage in transit, 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 achieved.

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.

Breaking strength

The following is for example purposes only.

Many factors can affect the result:

<i>The type of package being strapped</i>	<ul style="list-style-type: none">- Rigid/compressible- Sharp/round edges- Friction between items
<i>The method of transportation</i>	<ul style="list-style-type: none">- Internal/export- Palletised/loose
<i>The type of seal</i>	<ul style="list-style-type: none">- Plastic buckle/metal seal- Heat/friction seal
<small>Refer tool manufacturer for seal efficiency</small>	
<i>Safety factor</i>	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 kg

4 straps each of 300 kg breakload = 1200 kg

Seal 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.





100% Recyclable

WHY POLYPROPYLENE STRAPPING

MACHINE GRADE or HAND GRADE



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.



Machine Grade Polypropylene strapping

Purpose made for table top, automated large arch and high speed machines. Precision wound coils for smooth continuous running, lightweight and safe to handle.





Available Ex-Stock

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 x 0.50	135	2,000	Black	Plastic Reel & 200x150 Core
12.0 x 0.65	190	1,500	Black	Plastic Reel & 200x150 Core
12.0 x 0.76	235	1,200	Black	Plastic Reel & 200x150 Core
12.0 x 0.80	260	1,000	Black	Plastic Reel Only
12.5 x 0.86	300	1,000	Black	Plastic Reel & 200x150 Core
12.5 x 0.86	300	1,000	Yellow	Plastic Reel Only
9.0 x 0.55	100	4,000	White	200x190
12.0 x 0.55	125	3,000	White	200x190

Machine
Grade



Presentation: Cardboard cores for all automatic machinery. Plastic reel or cardboard cores for hand strap. Coreless for dispenser packs.

Manufactured under ISO controls guaranteeing minimum breakloads and meterages.

Specifications at a glance:

Width	5 - 19mm
Thickness	0.35 - 1.0mm
Quality	Hand grade to Fully Automatic
Elongation	14 - 20%

MACHINE GRADE or HAND GRADE



Why select Polyester strap?

PROPERTY

High rigidity

Low creep

UV resistant

Orientates well

Elastic memory

Good temperature resistance

Toughness and impact resistance

Excellent chemical resistance

Transparent gloss appearance

Value

BENEFIT

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

Polyester strap is predominantly used in the heavy duty sector of packaging - whether applied by hand or machine. It is polyester's strength and robust associated 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.

Breaking strength

The following is for example purposes only.

Many factors can affect the result:

<i>The type of package being strapped</i>	<ul style="list-style-type: none"> - Rigid/compressible - Sharp/round edges - Friction between items
<i>The method of transportation</i>	<ul style="list-style-type: none"> - Internal/export - Palletised/loose
<i>The seal strength of Refer tool/machine manufacturer for seal efficiency</i>	<ul style="list-style-type: none"> - Plastic buckle/metal seal - Heat/friction seal
<i>Safety factor</i>	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.



WHY POLYESTER STRAPPING

MACHINE GRADE OR HAND GRADE

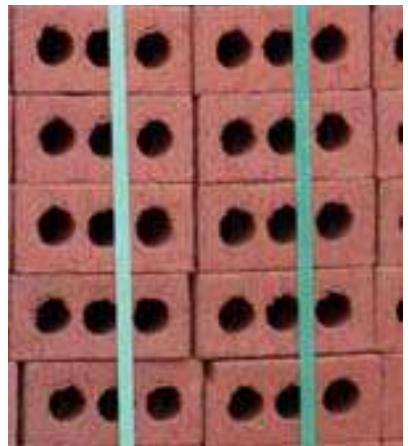
Polyester strapping for hand & machine applications

Available in a wide 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



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.



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.



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

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.



SECURITY



ADVERTISING



DISTRIBUTION



QUALITY CONTROL



Printed strap brings a wide range of benefits which can be divided into 4 main categories as above.

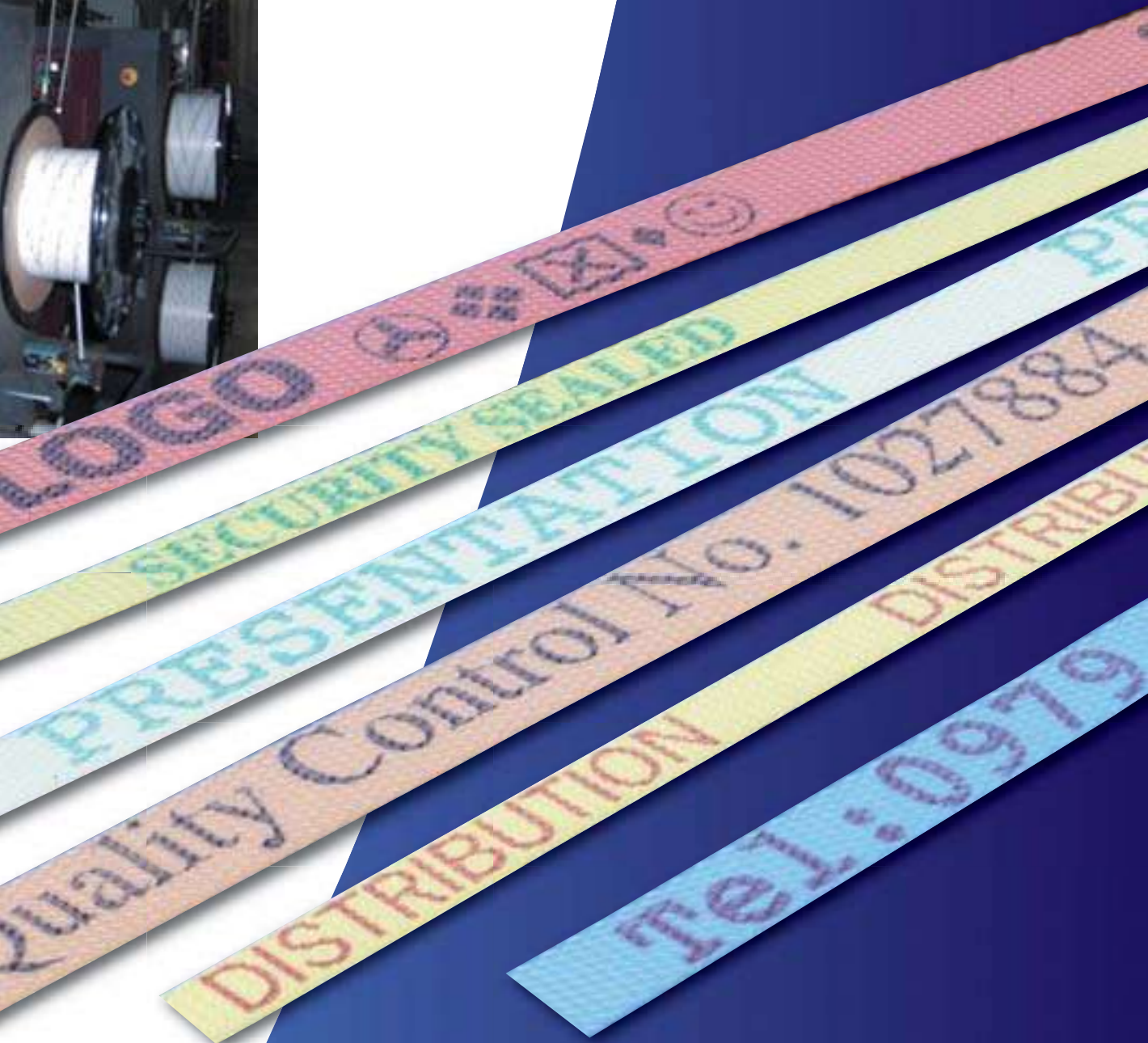
Whilst not only improving the appearance of the goods being strapped, printed strapping is a valuable marketing tool for the end user - helping to retain valuable business for you, the supplier:

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.



Plastic Extruders Ltd



CUSTOM PRINTED STRAPPING

Printing process is in single colour with a choice of 4 standard ink colours.

Strapping ancillaries

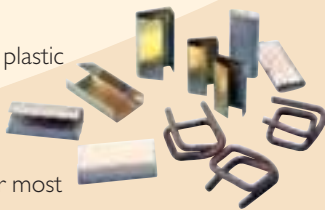
Hand Tools

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.



Coil holders

Plastex supply a range of coil holders - either in stand or trolley format. All coil holders are of rigid and robust construction and incorporate a guide arm and brake for ease of use.



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.



Edge Protectors

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

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 health & safety benefits.

Anti-fatigue matting and flooring range includes:



Tuff Spun

Ribbed surface economy matting.



Zed Land

Patented foam construction with superior resilience.



Tuff Spun Wear

Heavy duty top layer for improved abrasion resistance.



Tuff Spun Deck

Heavy duty deck-top surface with impact absorbing base foam.



Zed Tred

Zed Land base mat with heavy duty ribbed surface.



Zed Chex

Checker plate surface on patented foam base.



Spark Safe

Textured rubber top surface on a foam base.



Rubbagrid - Solid

Modular heavy duty solid surface rubber mat.

Anti-fatigue matting with slip resistant properties include:



Vynagrip

Heavy duty hard wearing industrial matting.



Heronair

A hard wearing and versatile work horse.



Floorline

Light, economical and comfortable.



Rubbagrid - Open

Heavy duty wet area modular mat.



Flexigrid

Tough at work - gentle on the environment.



Firmagrip

Close mesh matting ideal for small wheeled traffic.



Heronripa

Animal fat resistant matting.



Grip Rock

Versatile commercial catering matting.

For further information please contact
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Plastex matting and strapping solutions
FOR THE PACKAGING INDUSTRY

