



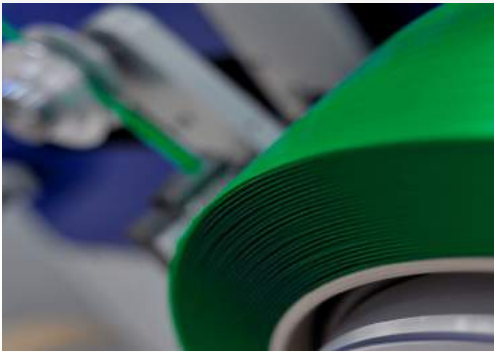
# PLASTOCRAFT

**RECYCLED, REINVENTED &  
REUSED YOUR USED PLASTIC.**



## About Us

**PET** is a very sophisticated plastic that, when recycled, is made into many new and useful products. By recycling, we have given your used bottles a second life, instead of directly going into landfills. Thus, we could reduce the reliance on virgin plastic material that is derived from fossil fuel, hence reducing greenhouse gases emission, and reducing global warming.



As Bangladesh continues to experience socio-economic development, the volume of plastic waste has increased accordingly. Plastocraft Limited effectively addresses the problems of plastic waste and convinced, there is a huge potential for the creation of value-added, environmentally-friendly products that contribute to the reduction in plastics pollution. Plastocraft Limited is a Well-known business entity in the arena of manufacturing optimum Quality of PET Flakes and PET Straps by recycling used Bottles. At our factory, we recycle more than 4500 Metric-Ton post-consumer bottles yearly to turn them into reusable materials for regenerated PET Strapping Belt.

We forever put our "valued customers" in the front position of all our efforts, as their satisfaction is primary source of growth. We have been serving our Domestic as well as international clients Worldwide with customer centric approach as a leading Manufacturer and Exporter with consistent & customer satisfactory quality. We have a number of satisfied customers, both in terms of quality and quantity all across Bangladesh, India, Vietnam, China, Turkey, Russia, Poland, Egypt & many more.



# PLASTOCRAFT PET FLAKES

**PET** is the most common and well-known of polymers - polyethylene terephthalate or **PET**, used in the manufacture of bottles for various beverages and other liquids. Crushed into small flat pieces of polyethylene terephthalate products are called flakes. It is obtained by processing on special machines, followed by cleaning. Such procedures make the product better and more expensive. In producing recycled PET flakes, Plastocraft utilizes its vast network of recycling centers to sort and separate the plastic raw materials by color and plastic type to avoid contamination in the manufacturing process. The company's sustainable supply chain management system allows for the continued supply of PET bottles to its Collection Hub and a production capacity of 500 Metric tons per month. We have Five Collection and Recycling Hub across the country where the used bottles are compiling, prewashing, crushing and bailing. The recycled PET flakes are available in a selection of colors such as Clear White, light blue, green and Brown to make ready for immediate delivery to the company's customers around the globe. This rigorous approach is done manually so as to ensure consistently low level of impurities; PVC bottle tops are also disregarded during sorting. Once the sorting process is complete, the source materials are then grounded into flakes and are then washed and subjected to an intense drying process in order to remove unwanted moisture. Our high-quality PET flakes are increasingly in demand from PSF Industry, Granules, PET Strap, PET Film and Food Packaging industry.

## Product Information & Product Specification

<b>Product Name</b>	PET Bottle Flakes
<b>Provenience</b>	Waste of PET Bottles
<b>Color</b>	Clear, Green, Brown
<b>Wash Type</b>	Cold, Hot
<b>Particle Size</b>	12-15 mm
<b>Moisture</b>	Maximum 1%
<b>Metal</b>	Nil
<b>PE/PP Label, Glue</b>	200 PPM
<b>PVC Content</b>	200 PPM
<b>IV</b>	0.65-0.70
<b>Packing Size</b>	Customized
<b>Smell</b>	No
<b>Appearance on Oven Test</b>	200 <sup>0</sup> C/60 Minutes No Color Change



Clear PET Flakes



Brown PET Flakes



Green PET Flakes

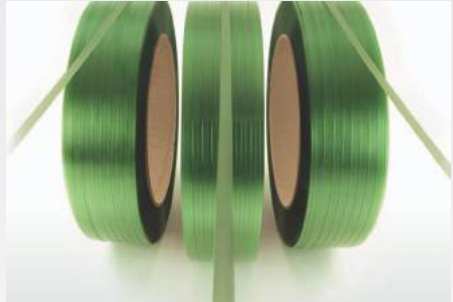


# PLASTOCRAFT PET STRAP

## Executing Excellence in Strapping

### Introduction

**PET Straps** recognized as a new environmental strapping material to substitute for Steel Strap & PP Strap, because it has more advantages than other straps. It is being increasingly used for strapping medium and heavy loads in place of Steel Strapping. It can also be used in place of other Plastic Straps where High Tensile Strength is required. PET strapping is a win-win selection, being user friendly, economical and environment friendly. We have installed a production line to produce Polyester (PET) Strapping ranging in standard width from 12 mm to 25 mm and thickness from 0.6 mm to 1.27 mm. With the help of experienced workforce, we are able to manufacture and export a vast fleet of PET Strapping Belt. Our PET Strap is known for its vast features, some of them are superior quality, longer service life, quality approved and reliable performance. Therefore, our company's offered products are extensively cherished and demanded among the users.



### Features & Advantages

1. PET is amongst the strongest plastic material.
2. Excellent Tensile Breaking and Welding Strength.
3. Rust Protection and Chemical Resistance.
4. Weather and UV Resistant, Environment Friendly
5. No cracking with 180° fold.
6. Easy, safe and economical to use.
7. Does not damage load surface, does not spoil corners and does not leave tracks and scratches.
8. Surface Option - Plain and Textured
9. It can be easily used with hand held/semi automotive/Automotive and conventional tools.

### PET Strapping Belt Process



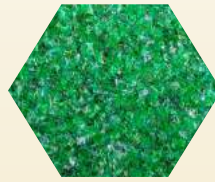
#### PET Bottle

Post Consumer Bottles are collected



#### Manual Sorting

Manually Sorting by color and material.



#### Flakes

Sorted waste are crushed and Washed



#### PET Strap

Flakes are Extruded into PET Strap



# PLASTOCRAFT PET STRAP

## Advantages of PET Strap Over Steel Strap

### Economical

The density of Steel Strap is  $7.8 \text{ g/cm}^3$ , but the density of the PET strap is between  $1.30\text{-}1.38\text{g/cm}^3$ , so it is much cheaper than Steel Strap. PET strap is about 6 times longer than steel strap in the same size. And it has the same strength of steel strap. Through the comparison and analysis of PET strap and steel strap as well as the practical data, we have learnt that 25mmx1.2 mm PET strap can replace 32mm X 1mm steel strap for heavy packing. Therefore, PET strap for the heavy industries, like glass, Aluminum ingot etc., can save the cost comparing with steel strap.

### High Shock Reserve

On long journeys to the customer, loads can be subjected to rough treatment: Hard braking, uneven road surfaces, unexpected shunting movements or other impulse-like pressures and generally poor handling subjecting the strap to enormous forces.

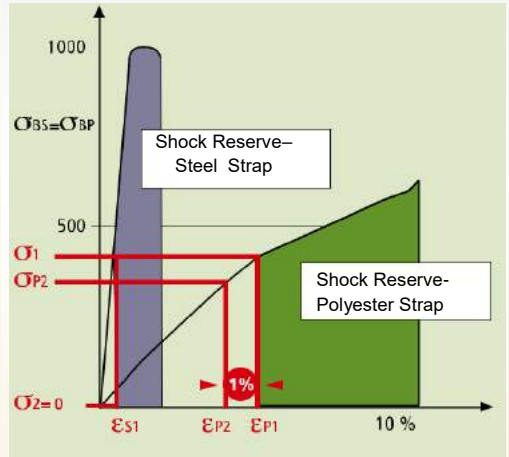
While steel straps have only a very limited shock reserve, PET straps are much more capable of absorbing the shock – and thus safely protect the load.

(Details are shown in the chart)



### Retention of Goods

Settling packages or loads present a real challenge for steel strap; as the chart shows. Due to its almost total lack of elasticity steel is unable to compensate allowing the straps to loosen. The end result being unsecured and dangerous loads. PET, however, compensates for this with its elasticity of 10-12% – thus keeping the goods secure to their journey's end.



### Health & Safety Issue

PET straps, in comparison, are not only much safer –but also extremely convenient to handle, because of its lighter weight.

Steel Strap usually cut the edge of package, whereas PET strap does not cut the edges of package. Hence, the packed product is totally protected. It does not cause any injuries while Tensioning or Cutting as it has smooth edges.



# PLASTOCRAFT PET STRAP

## Advantages of PET Strap Over PP Strap

- Polyester (PET) is much more stronger & stable material than Polypropylene (PP)
- PET Straps can be tensioned up to 50% more than PP Strap of equivalent size. Due to lower tensile strength PP strap easily brakes under pressure.
- It has a more "elastic" effect of keeping shrinking packages tighter.
- PP Straps can be used for light application only whereas Polyester straps can be used for heavy and medium applications.

## Strapping Comparison Chart

Particular	PP Strap	Pet Strap	Steel Strap
Strength	Low	Medium / High	High
Elongation	High	Medium	Low
Temperature Resistance	Low	High	High
Rust	No	No	Yes
Recycling	Easy	Easy	Difficult
Weight	Low	Low	High
Safety	Yes	Yes	No
Tension Retention	Low	High	High
Application	Light	Medium/ Heavy Duty	Heavy Duty
Tools	Manual/ Battery/ Semi & Fully Auto	Manual / Pneumatic/ Battery/ Fully Auto	Manual / Battery
Pricing	Medium	Medium	High

## Sectoral Solution

### Building Material & Wood

Roofing Tiles | Plaster Board | Timber | Chipboards | Plywood

### Palletization

Cartons | Film Rolls | Baggage Industry | Bottles | Clay Building Bricks

### Baling

Man-made fiber | Cotton | Jute | Coir | Rubber

### Industries

Bottling Industry | Steel | Glass & Ceramic | Automobile | Paper & Pulp | Refractories

### Metal Packaging

Steel Coils | Aluminum Ingots | All kind of metal sheet |Roods Pipes | Aluminum coils



# TECHNICAL SPECIFICATION

Product Code	Width		Thickness		Weight per roll, kg	Length per roll, M	Weight per M, gm	Breaking strength			
	mm	inch	mm	inch				Plain		Embossed	
								kgf	N	kgf	N
PC- 1205	12	0.47	0.50	0.020	20	2500	8.00	190	1864	180	1766
PC- 1207	12	0.47	0.70	0.028	20	2200	9.09	280	2747	260	2551
PC- 1308	13	0.51	0.80	0.031	20	1950	10.25	350	3434	330	3237
PC- 1508	15	0.59	0.80	0.031	20	1500	13.33	410	4022	400	3924
PC- 1606	16	0.63	0.60	0.024	20	1600	12.50	340	3335	320	3139
PC- 1608	16	0.63	0.80	0.031	20	1200	16.67	445	4365	430	4218
PC- 1610	16	0.63	1.00	0.039	20	1150	17.39	550	5396	542	5317
PC- 1908	19	0.75	0.80	0.031	20	1000	20.00	530	5199	518	5082
PC- 1910	19	0.75	1.00	0.039	20	900	22.22	670	6573	655	6426
PC- 19127	19	0.75	1.27	0.050	20	700	28.57	840	8240	820	8044
PC- 2510	25	0.98	1.00	0.039	20	550	36.36	875	8584	860	8437

Key : mm – Millimeter | M- Meter | gm- Gram | Kgf- Kilogram Force | N- Newton

Note:

- i. Standard core size: 406mm(Ø) x 150mm(W)
- ii. Acceptable tolerance in Width +/-0.3 mm, in Thickness +/-0.05 mm and in Breaking Strength +/-5%
- iii. Other Sizes and Specs or Color may be produced on customer's requirements

## PET Strap Application in Photos





# STRAPPING TOOLS

**Manual:** Strap Tensioner is highly effective for manual strapping applications, it comprises of a wide range of manual packaging tools that have ergonomic design with rubber handle. Simple structure, low failure rate, simple maintenance. it is widely used in high mobility occasions. Strap Sealer is to be used after PET strap has been tensioned. Simply apply your seal to the tensioned strap and clamp.



Size: 11-25 mm

### Technical Data

Width	12-19 mm
Thickness	0.6– 1.00
Max Tightening Force	600N



Tensioner



Sealer

**Pneumatic:** PET pneumatic strapping tool is a friction weld strapping tool, bonding the overlap thermoplastic PET strap by heat generated friction welding. It is widely used in steel, wood, stone, fiber, textile and other product packaging.

### Technical Data



Air Pressure	Tensioning Force	Strapping Speed	Belt Width	Belt Thickness
0.5– 0.7 Mpa	>2800N	5m/min	13-19 mm	0.6-1.2 mm

**Battery Operated:** It is known as combination tool applies PP or PET strapping, utilizing friction welding technology to join the strapping ends. It is widely used for bricks, timber, tiles, bales, aluminum, tobacco, chemical, steel and wide range of general products.



### Technical Data

Tensioning Force	Welding Time	Belt Width	Belt Thickness	Battery
600-3200N	2-5 Sec	13 - 16 mm	0.5-1.2 mm	12 V, 3.0 AH

## Factory & Corporate Office

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