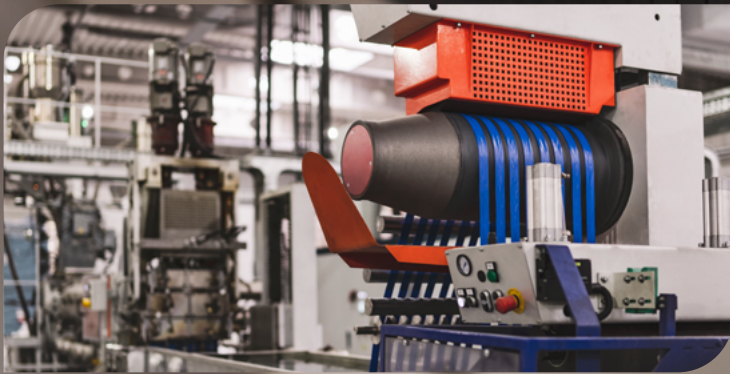


# PP STRAPPING TAPES

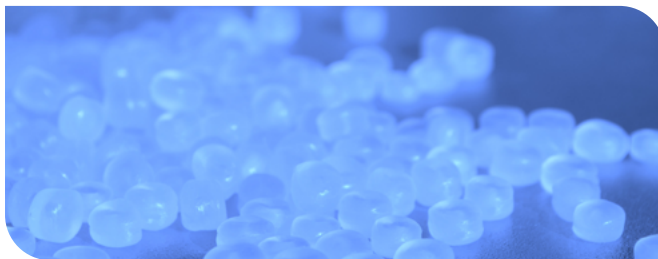




**Defalin Group** is a leading European company whose long-standing tradition and expertise in packing products led to the production of the first DEFTA polypropylene tapes in 1995. They were a breakthrough product on the Polish market that – thanks to their high quality and reliability – quickly gained recognition as a very useful solution for packing and strapping.

Presently, the tape makes up approx. 35% of the production volume of the company, which gives us a major share in the PP tape market. The products of Defalin are a vital component of the strength and potential of the company, which aims to satisfy the needs of the Customers in every part of the world.





The high quality of the products is the result of using advanced technologies and special know-how in production as well as the quality of select polypropylene from reputable suppliers.

Before being launched on the market, every new product is tested and undergoes quality control procedures to make sure it complies with the most stringent production specifications and ISO standards. This way, we can guarantee that our product will function without fault in strapping equipment designed to be used with polypropylene tape.

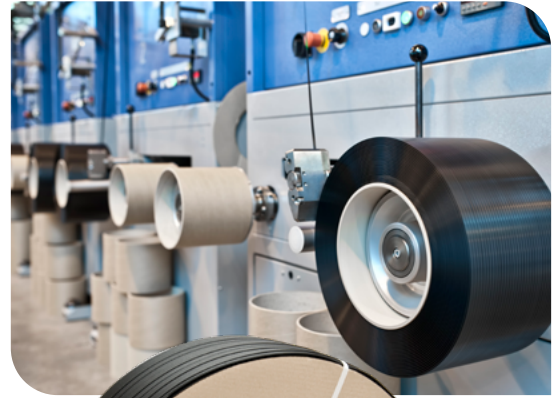


### **DEFALIN GROUP S.A.**

DEFALIN products are manufactured in a modern, fully automated facility.

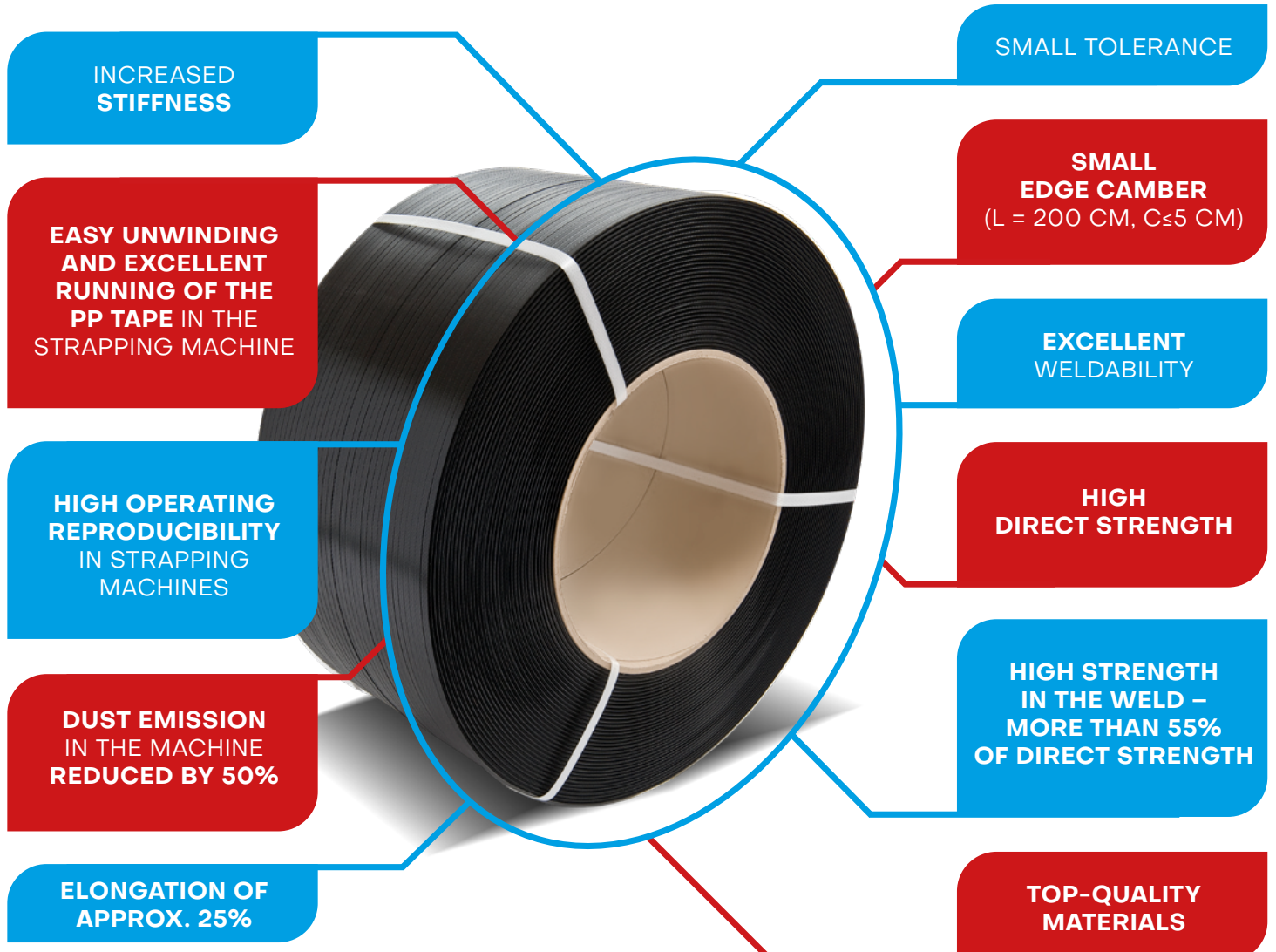


# PP TAPE & ITS ADVANTAGES



Polypropylene packing tapes, thanks to the modern and efficient production technology, have become one of the many appreciated products of DEFALIN GROUP. The wide range of available tapes fully covers the needs we find on the market. Their high quality, as evidenced by their high straightness, weldability and strength, makes them suitable for many segments of the industry and services, using automatic and manual packing systems.

## CHARACTERISTICS OF DEFALIN PP TAPES:

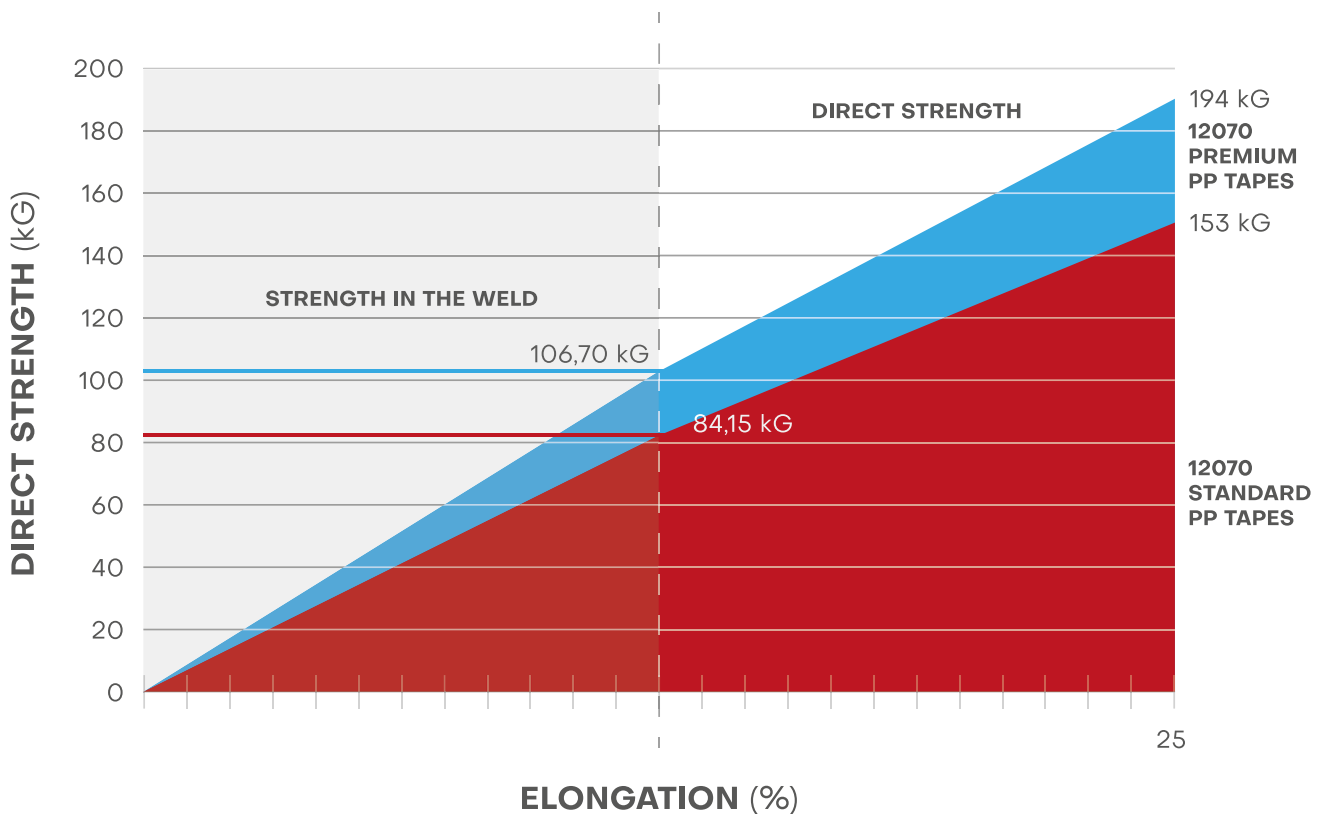


Upon the request of the customers, DEFALIN tapes can be made in colours other than natural, white or black colour. The PP tapes we offer can also be customised according to individual designs.



The print on the tape can be used as one of the ways of advertising your company. The name of the manufacturer and website address will make it easier to quickly identify the manufacturer of the packed goods.

## COMPARISON OF THE STRENGTH OF 12070 PREMIUM AND STANDARD PP TAPES



# THE BEST CHOICE FOR YOUR NEEDS

Our polypropylene tapes are suitable for a wide range of strapping machinery and equipment to enable quick and easy packing.

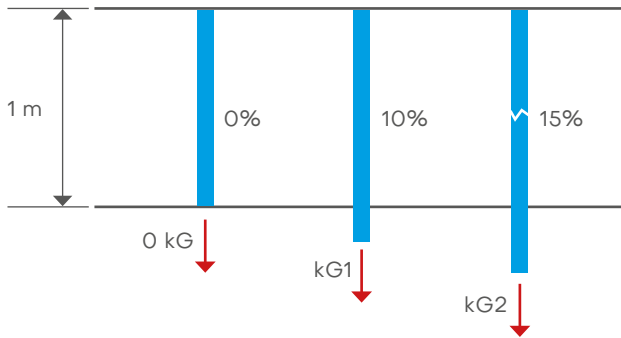
## PP TAPE TYPES:

	TAPE TYPES: [mm]	COURIER COMPANIES, POST OFFICES AND BANKS	PAPER INDUSTRY AND PRINTING SHOPS / GARDENING AND HORTICULTURE	LARGE AND SMALL HOUSEHOLD GOODS	TIMBER AND CONSTRUCTION INDUSTRY	
PREMIUM PP TAPES	4-8	✓	✓	✓		AUTOMATIC STRAPPING MACHINES
	9-12		✓	✓		
	14-19			✓	✓	
STANDARD PP TAPES	5-8	✓	✓	✓		AUTOMATIC AND SEMI- AUTOMATIC STRAPPING MACHINES
	9-12		✓	✓		AUTOMATIC AND SEMI- AUTOMATIC STRAPPING MACHINES / MANUAL STRAPPING TOOLS
	14-19			✓	✓	
SPECIAL PP TAPES	MONO		✓	✓		
	SPEND				✓	MANUAL STRAP- PING TOOLS
	FOAMED	✓				AUTOMATIC STRAPPING MACHINES
ECO PP TAPE	12-19			✓	✓	SEMI-AUTOMATIC STRAPPING MACHINES / MANUAL STRAPPING TOOLS

To choose the correct type of packing tape, it is necessary to select the packing method and the type of object to be packed and determine the environmental conditions.

The strength and elongation of the tapes are important aspects required for their correct use.

**PP TAPE ELONGATION DIAGRAM.**

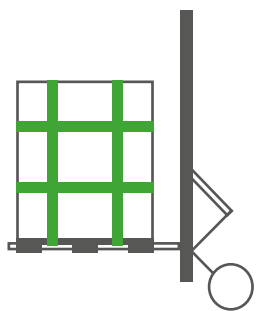


Elongation is the relative increase of tape length in percentage after exposure to a force. When the maximum value is exceeded during tensioning, the tape will break.

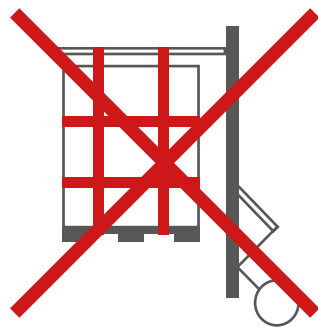
In practice, tape elongation is a useful property because it makes it flexible and enables it to be wrapped around the load, unlike, for instance, steel tapes, where relative elongation is low.

The tape is intended for the wrapping and strapping of loads. It is not suitable for use as a lifting sling.

**GOOD**



**WRONG!**



The resultant strength of the bands (straps) of the load has to be at least 2 times greater than the weight.

**EXAMPLE:**

A load weighing 800 kg should be strapped with a PP tape 19090 with a strength of 408 kG  
 $4 \times 408 \text{ kG} = 1632 \text{ kG}$   
 i.e. 2 x more pallet weight.

**PACKING METHOD**

AUTOMATIC STRAPPING MACHINES

**INTENDED USE**

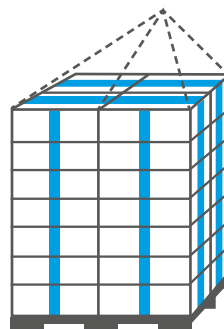
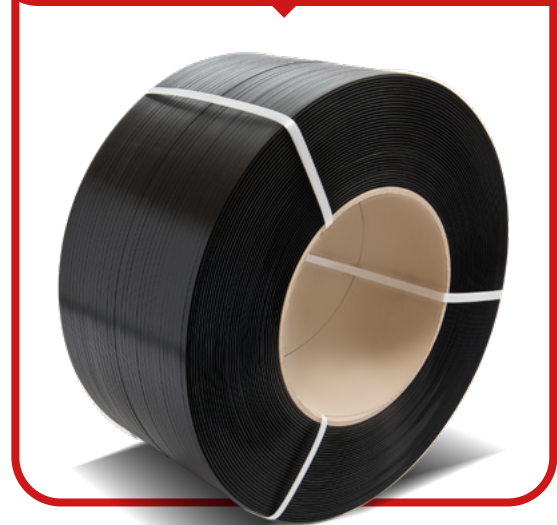
DISTRIBUTOR COMPANIES, POST OFFICES AND BANKS

**PP TAPE TYPE**

4-8 mm (premium tape)



**THE RIGHT CHOICE OF THE PP TAPES**



$4 \times 408 \text{ kG} = 1632 \text{ kG}$

i.e. 2 x more pallet weight.

A load weighing 800 kg

# PREMIUM PP TAPES

They are a group of tapes that meet the growing demand for heavy-duty products. The improved production process and the use of suitable materials enhance the properties and functionality of such tapes in comparison with standard tapes.



## ◆ 4-8 mm PP TAPES

During packing at automated packing lines, where precision and packing speed are essential, it is necessary to use tapes with unique specifications. The modified embossing improves stiffness, which means that the tape is precisely fed into the tunnel of the strapping machine, and the smooth surface achieved on both sides reduces friction. The tapes also emit 50% less dust and have a small tolerance, reduced coefficient of friction and smaller edge camber.

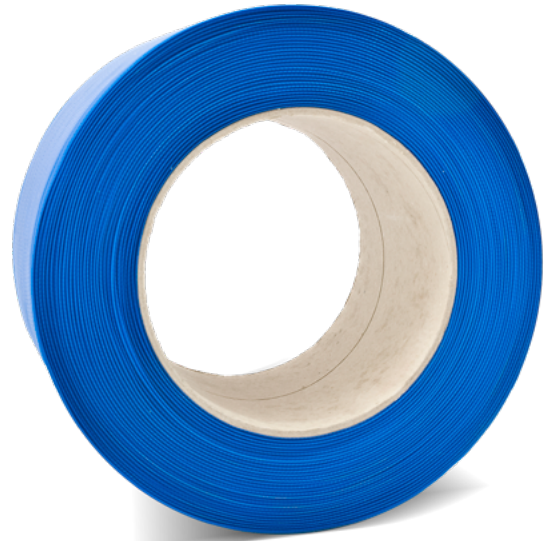


Width (mm)	4-8
Thickness (mm)	0,35-0,60
Application	AUTOMATIC STRAPPING MACHINES
Breaking strengt (kG)	36-107

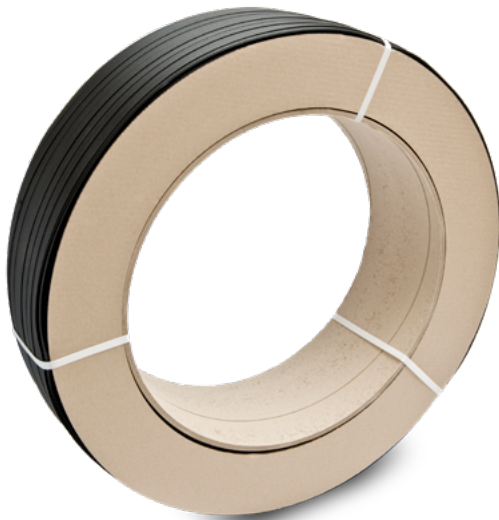
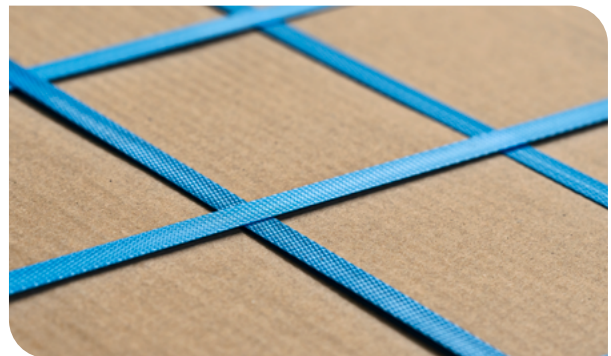


## 9-12 mm PP TAPES ▶

PP tapes with a width of 9 mm to 12 mm are perfectly suited for the strapping of medium-sized loads during transport and storage. In addition to their excellent performance, the tapes enable quick and stable handling in universal strapping machines.



<b>Width (mm)</b>	9-12
<b>Thickness (mm)</b>	0,50-0,80
<b>Application</b>	AUTOMATIC STRAPPING MACHINES
<b>Breaking strengt (kG)</b>	107-230



## ◀ 14-19 mm PP TAPES

PP tapes from this range are a great choice for high-efficiency equipment. Thanks to their excellent strapping performance, the tapes can be used to secure heavy loads in transport. They are dedicated to the quick strapping of large quantities of products at automated production lines.



<b>Width (mm)</b>	14-19
<b>Thickness (mm)</b>	0,50-0,90
<b>Application</b>	AUTOMATIC STRAPPING MACHINES
<b>Breaking strengt (kG)</b>	173-413

# THE **STANDARD** PACKAGING SOLUTION

Standard tapes are the result of many years of experience with the production of packing tapes. By paying close attention to the parameters of the production process, we can make products with proven, reproducible properties. Thanks to the universal width and small tolerance, the tapes are suitable for all conventional strapping machines.



## ◆ 5-8 mm PP TAPES

These are popular, proven tapes used to strap lightweight products: at post offices for letter strapping, at banks to pack wads of banknotes and at offices, where it is necessary to strap large numbers of files together.



Width (mm)	5-8
Thickness (mm)	0,45-0,60
Application	AUTOMATIC AND SEMI-AUTOMATIC STRAPPING MACHINES
Breaking strengt (kG)	54-84

## 9-12 mm PP TAPES ▶

PP tapes with a width of 9 mm to 12 mm are used for automatic strapping and for manual strapping tools. They are perfect for use at automated production lines to strap packages, paper, cardboard, newspapers and catalogues or to secure pallets with fruit.

<b>Width (mm)</b>	9-12
<b>Thickness (mm)</b>	0,50-0,80
<b>Application</b>	AUTOMATIC AND SEMI-AUTOMATIC STRAPPING MACHINES / MANUAL STRAPPING TOOLS
<b>Breaking strengt (kG)</b>	87-184



## ▶ 14-19 mm PP TAPES

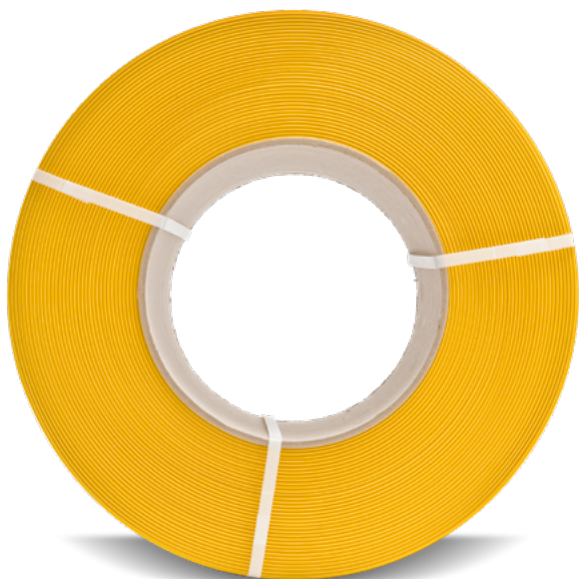
PP tapes with a capacity of up to 408 kG are used for pallet strapping in transport. The tapes of this group are also used by sawmills, the ceramic industry and brickyards and for the strapping of heavy loads.



<b>Width (mm)</b>	14-19
<b>Thickness (mm)</b>	0,50-0,90
<b>Application</b>	AUTOMATIC AND SEMI-AUTOMATIC STRAPPING MACHINES / MANUAL STRAPPING TOOLS
<b>Breaking strengt (kG)</b>	166-408

# SPECIAL PP TAPES

It is a group of PP tapes designed for special applications.



## ◀ MONO 9-10 mm PP TAPE

Mono is a tape with unique, linear embossing whose primary features include high flexibility and stretchability. The rounded edges of the tape prevent damage to the cardboard packaging during strapping in strapping machines. Excellent straightness and the absence of dust emission ensure reliable operation in the machine. The strap perfectly stabilises goods in transit, and the high break strength and max. elongation of 24% enable the strapping of heavier loads with tape that is narrower, i.e., less expensive.



<b>Width (mm)</b>	9-10
<b>Thickness (mm)</b>	0,40-0,47
<b>Application</b>	SEMI-AUTOMATIC STRAPPING MACHINES / MANUAL STRAPPING TOOLS
<b>Breaking strengt (kG)</b>	109-134

## FOAMED 7 mm PP TAPE ▶

Is intended for strapping small and delicate objects in special packing equipment. These tapes are used wherever it is necessary to securely strap packages without damaging them. They are excellent for strapping small and delicate boxes, banknotes, files, books, etc.

<b>Width (mm)</b>	7
<b>Thickness (mm)</b>	0,30-0,35
<b>Application</b>	AUTOMATIC STRAPPING MACHINES
<b>Breaking strengt (kG)</b>	63-67



## ▶ SPEND 12 mm & 16 mm - ROLL WITHOUT A TUBE

PP SPEND tapes are perfect for the manual strapping of loads. Thanks to the handy cardboard box with the tape, the tape can be carried easily and quickly to enable easy application.

<b>Width (mm)</b>	12 ; 16
<b>Thickness (mm)</b>	0,50-0,60
<b>Application</b>	MANUAL STRAPPING TOOLS
<b>Breaking strengt (kG)</b>	128-224

## 12-19 mm ECO PP TAPE ▶

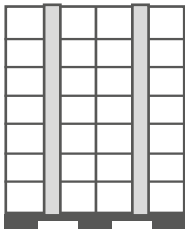
ECO tapes are a group of sustainable products. We combined the responsibility for the natural environment with our expertise, experience and technologies to create tapes that use recycled materials. Their performance is not inferior to that of standard tapes, and they will certainly be appreciated by users who care about the protection of the environment and the climate.

<b>Width (mm)</b>	12-19
<b>Thickness (mm)</b>	0,50-0,90
<b>Application</b>	SEMI-AUTOMATIC STRAPPING MACHINES / MANUAL STRAPPING TOOLS
<b>Breaking strengt (kG)</b>	128-408



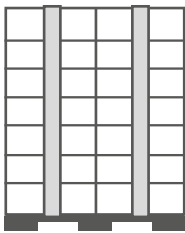
# PRACTICAL INFORMATION

## WHITE TRANSPARENT TAPE



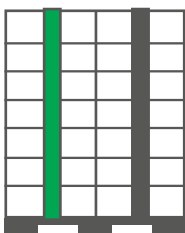
**KEEP AWAY FROM THE SUN**

## TAPE WITH A UV STABILISER



**MAX. EXPOSURE TIME: 12 MONTHS**

## GREEN OR BLACK TAPE



**MAX. EXPOSURE TIME: 6 MONTHS**

## OUTDOOR STORAGE OF TAPES

Polypropylene tapes degrade when they are exposed to the harmful effects of UV solar radiation. This results in a quick deterioration of the strength of the tape.

UV-resistant tapes are required for all loads stored outdoors or in other places where the tapes are exposed to the risk of rapid deterioration.

Black and green tapes can be kept outdoors for up to 6 months in a moderate zone. Using a UV stabiliser can extend the life of the tapes in outdoor conditions to up to 1 year.

## TRANSPORT CONDITIONS

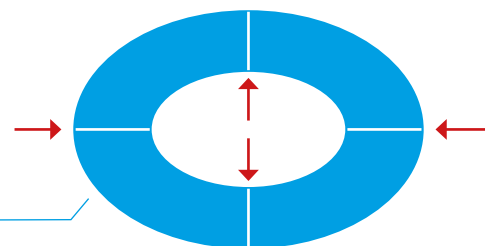
To preserve the desired performance of the tape, the following requirements must be observed during transport:

- ▶ maintain appropriate care during loading and unloading,
- ▶ preserve the original packaging,
- ▶ transport the tapes in the horizontal, non-vertical position,
- ▶ do not throw the boxes, protect against falls.

Incorrect behaviour during transport may cause physical damage to the tapes:

- ▶ roll out-of-roundness – this damage can be corrected by delivering a strong blow to the out-of-round area,
- ▶ lateral shift of the roll on the core,
- ▶ internal bending of the tape roll.

This damage can be corrected by delivering a strong blow to the out-of-round area.



## STORAGE CONDITIONS:

- ▶ preserve the original packaging,
- ▶ keep in covered premises,
- ▶ keep away from sunlight, moisture and temperatures higher than 35°C,
- ▶ the height of tape storage on pallets cannot exceed 2 m, pallets should not be stacked.



**FAILURE TO OBSERVE THE TRANSPORT OR STORAGE CONDITIONS  
MAY VOID THE WARRANTY IN THE EVENT OF COMPLAINTS.**

## PACKING METHOD: BOX/FILM



PP tapes are wound onto paper cores of varying diameter. To protect the tape against unwinding, a cardboard separator or bands are placed on both sides and strapped with PP tape in three places. The tape rolls are packed into boxes that contain information about the tape type, roll, core type and the number of pieces per box.

Alternatively, a PP tape roll can be wrapped with a blue, transparent film containing the details of the company and information about the tape.



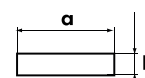
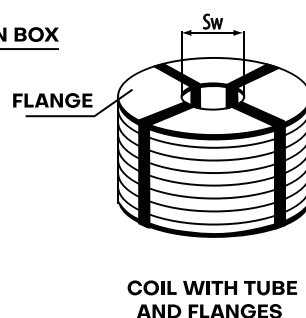
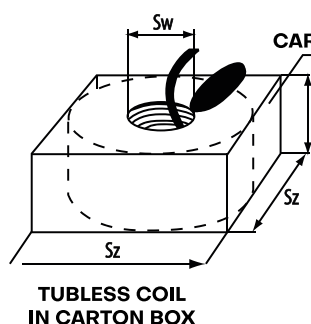
## PREMIUM PP TAPES

CODE	TUBE TYPE	INNER DIAMETER Ø Sw [mm]	TAPE LENGTH [m]	BREAKING STRENGTH [kG]	NUMBER OF COILS PER BOX [psc.]	NUMBER OF BOXES PER PALLET [psc.]
4040	D	200	6000	36	1	60
5035	A	63	2500	36	4	60
5040	D	200	7000	51	1	60
5045	D	200	7000	64	1	60
5050	D	200	6000	61	1	60
6050	D	200	5500	72	1	60
6055	D	200	5100	94	1	60
8050	D	200	4500	107	1	60
8055	D	200	4500	103	1	60
8060	D	200	4500	107	1	60
9050	D	200	3700	107	1	60
9050	D	200	4800	107	1	60
9055	D	200	4000	109	1	60
9055	D	200	4500	109	1	60
9060	D	200	3400	134	1	60
9060	E	280	2800	134	1	60
9070	D	200	2500	165	1	60
9070	E	280	2500	165	1	60
10050	D	200	4100	117	1	60
12050	D	200	3400	145	1	60
12055	D	200	3000	153	1	60
12060	D	200	2800	158	1	60
12060	E	280	2200	158	1	60
12070	D	406	2500	194	1	48
12080	G	406	2000	230	1	48
14050	D	200	3000	173	1	60
15060	D	200	2200	230	1	60
15080	D	200	1700	281	1	60
15080	G	406	1600	281	1	48
16060	D	200	2000	245	1	60
16060	G	406	1800	245	1	48
16080	D	200	1500	316	1	60
16080	G	406	1400	316	1	48
19090	D	200	1200	413	1	60



# STANDARD PP TAPES

CODE	TUBE TYPE	INNER DIAMETER Ø Sw [mm]	TAPE LENGTH [m]	BREAKING STRENGTH [kG]	NUMBER OF COILS PER BOX [psc.]	NUMBER OF BOXES PER PALLET [psc.]
5045	D	200	7000	54	1	60
5050	D	200	6000	60	1	60
6050	D	200	5500	64	1	60
6055	D	200	5100	71	1	60
8050	D	200	4500	91	1	60
8055	D	200	4500	80	1	60
8060	D	200	4500	84	1	60
9050	D	200	3700	87	1	60
9050	D	200	4800	87	1	60
9055	D	200	4000	88	1	60
9055	D	200	4500	88	1	60
9070	D	200	2500	143	1	60
9070	E	280	2500	143	1	60
12050	D	200	3400	128	1	60
12055	D	200	3000	128	1	60
12060	D	200	2800	133	1	60
12060	E	280	2200	133	1	60
12070	D	406	2500	153	1	48
12080	G	406	2000	184	1	48
14050	D	200	3000	166	1	60
15060	D	200	2200	210	1	60
15080	D	200	1700	255	1	60
15080	G	406	1600	255	1	48
16060	D	200	2000	224	1	60
16060	G	406	1800	224	1	48
16080	D	200	1500	286	1	60
16080	G	406	1400	286	1	48
19090	D	200	1200	408	1	60



**TAPE DIMENSIONS**  
a - width  
b - thickness

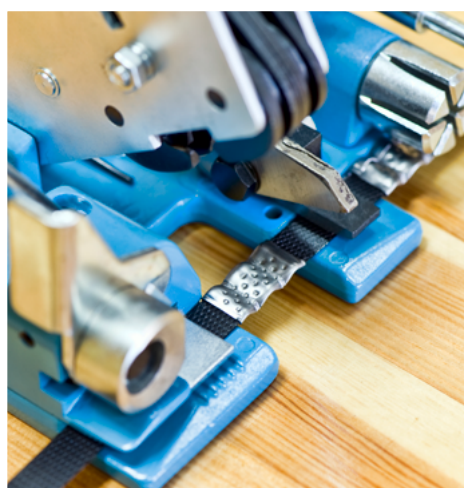
**CODE CLARIFICATION**  
8060;  
a = 8 mm  
b = 0,60 mm

## PP SPEND TAPES

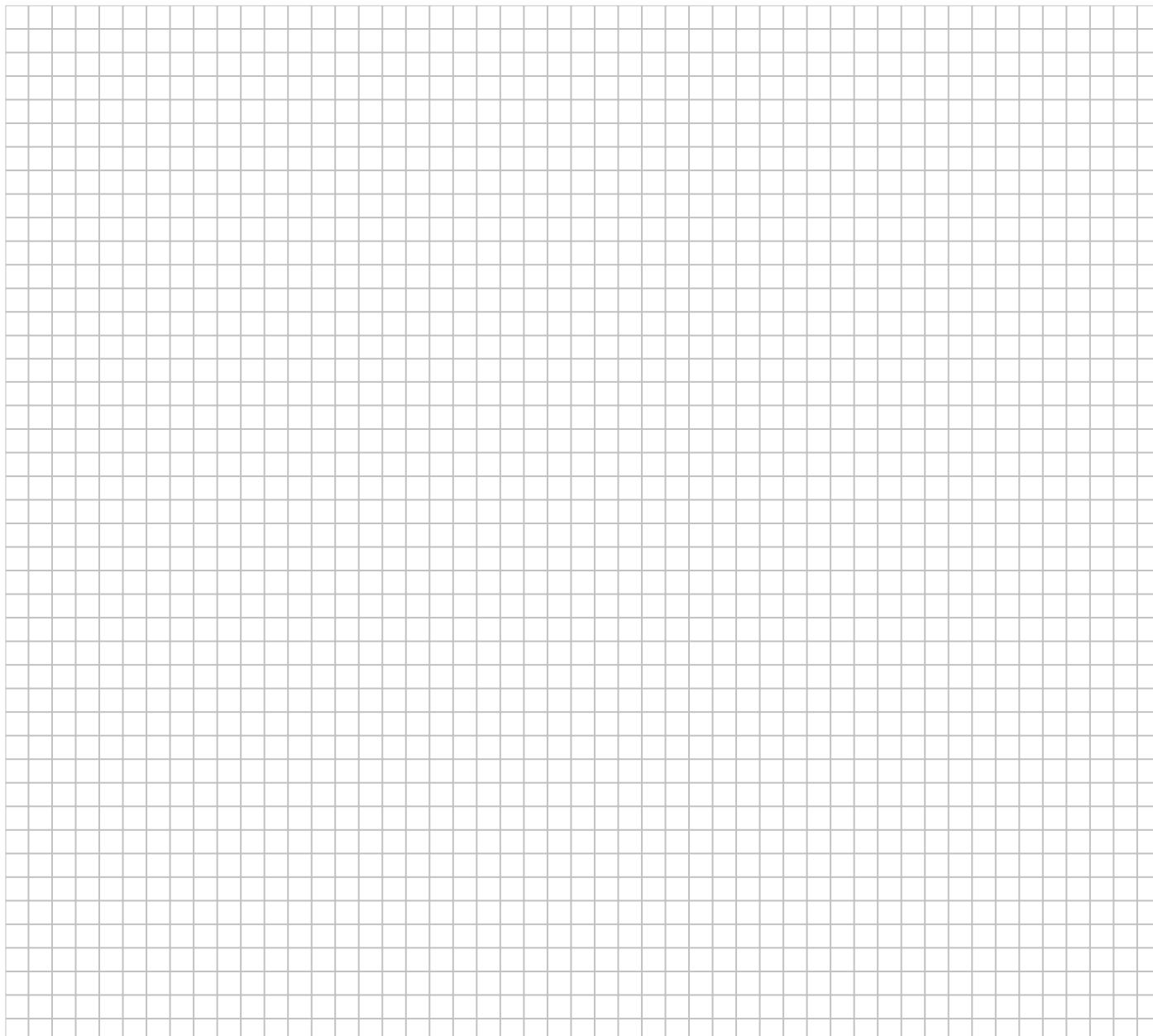
CODE	TUBE TYPE	OUTER DIMENSIONS L / Sz [mm]	TAPE LENGTH [m]	BREAKING STRENGTH [kG]		NUMBER OF COILS PER BOX [psc.]	NUMBER OF BOXES PER PALLET [psc.]
				PREMIUM	STANDARD		
12050	-	115/355x355	1100	145	128	1	60
12055	-	115/355x355	1000	153	128	1	60
12060	-	115/355x355	1000	158	133	1	60
16050	-	105/390x390	1100	200	188	1	60
16060	-	105/390x390	1000	240	224	1	60

## MONO PP TAPES

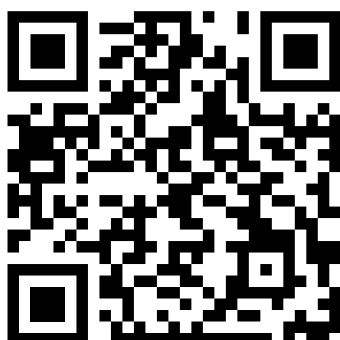
CODE	TUBE TYPE	INNER DIAMETER Ø Sw [mm]	TAPE LENGTH [m]	BREAKING STRENGTH [kG]	NUMBER OF COILS PER BOX [psc.]	NUMBER OF BOXES PER PALLET [psc.]
9047	D	200	4100	134	1	60
10040	D	200	4100	109	1	60



# NOTE



E-MAIL



PRODUCT CATALOG



WWW.DEFALIN.COM.PL





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