



▶▶ PROtect tapes[®]
2023



© Vincent Curutchet

"The entire technical team of the Project and I are particularly satisfied with the Protect tapes products. They provide us with invaluable services on a daily basis. A big thank you for this partnership."
[Louis Burton, Bureau Vallée]

▶▶ PROtect tapes®

Explorers of innovation

PROtect tapes are a broad range of protective tapes and solutions for dinghies, racing, cruising and super yachts. Our products address serious chafing, abrasion, scratches, damages, ageing and wear.

The critical factor to success has been the combination of unique technical film experience from polymer and adhesive specialists and sailing expertise of professional sailors.

They are effective solutions for the owners, captains, mast and boat builders, shore teams, riggers and sailmakers looking for superior and competitive product to enhance performances and ultimately win the race or simply reliability and have a safer cruising.

The years since **PROtect tapes** was established in 2007 have been extraordinary.

We have grown from a tiny startup to become a leading company focused on the niche area of tapes and solutions for the yachting industry.

Today, it is young, vigorous, brash, ambitious, full of ideas and dreams due to smart people, unique equipment, steady hands and smiling faces.

We use our bikes as much as we can, drink squeezed orange juice and gossip about life.

We are **PROtect tapes**.

NEW

KIT PMK021 RS21

NO SLIP POH200 black and white soft no slip
PON200 handrails

SKID PAD060 black glow line tape
PAF060 yellow fluo
PAI054 beige

SPK SPK002L designed for machine sewing and sailmakers, suitable for large sails



Excellence in safety, health and environmental performance



Focus on customer satisfaction, total quality and reliability



Continuous improvement to become a cost effective producer of high quality products



Encouragement of innovation, entrepreneurship and reward for achievement



Empowerment of employees to create real value for our customers and ourselves

DO NOT USE PROtect tapes for HUMAN SUSPENSION







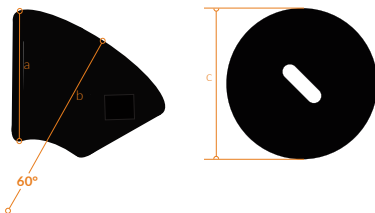


CHAFE is a pressure sensitive UHMWPE tape (ultra high molecular weight polyethylene) film with a very strong acrylic adhesive. It has high resistance to abrasion (15 times more resistant than carbon steel), self-lubricating properties and extremely low coefficient of friction. The result is a very tough material, with the highest impact strength of any thermoplastic presently made. The product is available in black and translucent and various standard widths. Custom slitting, cutting and die cutting on demand.

Typical applications:

- dragging lines over the deck
- mooring ropes area
- mast (front and shave box) and leading edge spreaders
- under the boom to protect it from spinnaker/gennaker sheet
- pad eyes on the deck for blocks and hardware
- daggerboards and bearings
- stanchions
- battens and sails

Part code	Product	Quantity	Size
PCK001	PCB250 PCB500 PCT250 PCT500	1 piece each	51mm x 500mm 2" x 19.68"
PMK033S	PCB500	for blocks - 2 pcs	c=200mm c=8"
PMK033M			c=240mm c=9.45"
PMK033L			c=300mm c=12"
PMK034S		for blocks - 2 pcs	a=103mm b=130mm a=4.06" b=5.12"
PMK034M			a=158mm b=200mm a=6.22" b=7.87"
PMK034L			a=198mm b=250mm a=7.80" b=9.84"



Part code	Color	Adhesive	Thickness		Width		Length							
			mm	mil	mm	in	m	yds						
PCB076	Black	Acrylic w/liner	0.076	3	standard 25 51 152	standard 1 2 6	16.5	18						
PCB125			0.125	5										
PCB250			0.250	10										
PCB500			0.500	20	min 6.35 max 660	min 1/4 max 26								
PCB1000			1.000	40	standard 50 and 200	standard 2 and 8			15	16.4				
PCB1570			1.570	60										
PCB2360			2.360	93										
PCB3170			3.170	120	min 6.35 max 610	min 1/4 max 24								
PCT076			Translucent	Acrylic w/liner	0.076	3					standard 25 51 152	standard 1 2 6	16.5	18
PCT125					0.125	5								
PCT250	0.250	10												
PCT500	0.500	20			min 6.35 max 660	min 1/4 max 26								
PCT1000	1.000	40			standard 50 and 200	standard 2 and 8	15	16.4						
PCT1570	1.570	60												
PCT2360	2.360	93												
PCT3170	3.170	120			min 6.35 max 610	min 1/4 max 24								

CHAFE above 500 micron (20mil) are normally without adhesive; available with adhesive on request. Product codes PCTXXXXCA or PCBXXXXCA

SHOCK & SHIELD

SHOCK is a further evolution of CHAFE products, to resist to abrasion and shocks from blocks, press locks, snap and halyards shackles.

The first evolution is made of aliphatic polyurethane resin film laminated between CHAFE and a modified acrylic adhesive and finally protected by a siliconised paper to make easy and friendly handling, die cut and application.

Any CHAFE film can be used, ideally 250 or 500 micron (10 or 20 mil).

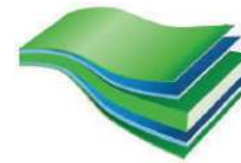
The product is made on demand and tailor made in the width, length and eventually shape by plotting and die cutting.

The further step is PSX made of lightweight, flexible, microcellular, open cell suitable for multiple high impact protection. It absorbs more energy than comparable materials, nearly twice. The impact is also distributed over a greater area without through the material and to the other side.

SHIELD has been specially developed for protecting susceptible areas of the boat from damage from shock, chafe and scuffing. The films are produced from high grade polyurethane, which has excellent high impact resistance, excellent transparency and high gloss. The films are coated with quality acrylic adhesive with very good long term ageing properties. Tested in most extreme climatic conditions, the films will not crack, discolour or shrink.

Typical applications:

- soft loops and pad eye areas
- mast, boom and spreaders
- bowsprit
- windows/hatches



Liner
Acrylic adhesive
Open Cell
Acrylic adhesive
UHMWPE

PSX structure

SHOCK

Part code	Color	Adhesive	Thickness		Width	
			mm	mil	mm	in
PSB250	Black	Acrylic w/liner	0.250	10	min 38 max 660	min 1 1/2 max 26
PSB500			0.500	20		
PST250	Translucent		0.250	10		
PST500			0.500	20		
PSX250XXXXY	Black		0.250	10		
PSX500XXXXY			0.500	20		

PSX: Extreme impact protection are made on demand using different materials listed on the table on the right and highlighted in orange

Max length is 16.5m (18 yds) nevertheless SHOCK has been designed to locally protect limited areas therefore we suggest maximum few meters. Plotting service available on all SHOCK and SHIELD products

SHIELD

Part code	Color	Adhesive	Thickness		Width		Max Length	
			mm	mil	mm	in	m	ft
PSC190	Clear	Acrylic w/liner	0.190	7.5	standard 50, 100 max 500	standard 2 and 4 max 20	50	54.6

PSX code XXXYY

Density		Thickness								
g/l	lb/ft ³		mm	2	3	4	5	6	9.5	12.7
		mil	80	118	158	197	236	374	500	
144	9				14404		14406	14410	14413	
192	12		19202	19203	19204		19206	19210	19213	
240	15		24002	24003	24004		24006	24010	24013	
320	20		32002	32003			32006	32010		
400	25		40002	40003						







MASK is the rigging tape.

Riggers and sailors call our best seller PMG050 *the millionaire tape* or *gecko tape*, a mast have into the sailor trousers pockets.

The tape combines highly tensilized skived modified PTFE (a synthetic fluoro-polymer) with a high temperature silicon or acrylic adhesives.

They have the highest tensile strength per unit, toughness and high temperature resistance of any PTFE product.

The low friction coefficient together with the resistance to abrasion offers an efficient solution to many wearing and tearing issues.

Typical applications:

- running rigging
- bobstays and strops
- standing rigging, spreaders and turnbuckles
- forestay, backstay, runners and other cables
- all uneven or irregular surfaces
- ideal for wrapping parts where build up can occur

Two boxes protect your Millionaire tape either inside the tools box or when you climb on the mast

Part code	Description
PMY012	Box for storage any mask tape of up to 12.7mm (1/2") x 33m (36yds)
PMY025	Box for storage any mask tape of up to 25mm (1") x 33m (36yds)



Part code	Color	Adhesive	Liner	Thickness				Elongation at break	Width								Lenght						
				film		adhesive			%	mm inch	standard				min 0.25	max 21.5	m 10	m 33					
				micron	mil	micron	mil				12	25	32	51					102	7	564	11	36
PMO064	Orange	Silicon	--	64	2.5	38	1.5	140		●	●							●					
PMB064	Blue		--	64	2.5	45	1.8			●	●								●				
PMG050	Grey		--	50	2	38	1.5		300	●	●	●	●	●					●				
PMG076			--	76	3					●	●										●		
PMH125L	Light Grey		yes		125			5					●	●								●	
PMH250L					250			10					●	●	●	●							●
PMH500L					500			20					●	●									●
PML050				--	50			2					●	●	●	●							●
PML125				--	125			5						●	●								
PML250L	yes			250	10								●	●								●	
PML500L			500	20								●	●								●		
PMA050	Grey	Acrylic	--	50	2									●							●		

L at the end of the part codes means product with liner. PMG050, PML050 and PML125 are available with liner on request. PMO064, PMB064 available in 25mm (1") and 32mm (1" 1/4), PMG076 and PMA050 available in 25mm (1"), PML125 available in 25mm (1"), 32mm (1" 1/4) and 51mm (2") only. ● standard Other widths on demand.

HEADFOIL

HEADFOIL is the ideal protection against damages to plastic, composite or metallic headfoil from severe contact abrasion of rotating spinnaker/guy or gennaker sheets during internal gybe or kite drop. It is a combination of modified UHMWPE polymers films and strong acrylic or silicon adhesives.

The standard product is suitable for small boats up to 12m (40') and available in two colors: translucent (PHTXXX) or black (PHBXXX).

PHPXXX (high performances), available in light grey with silicon adhesive, is strongly recommended for larger and grand prix yachts or whenever a superior resistance is required.

The differences between the two versions are the polymers, the temperature resistance of the films and the type of the adhesives.

All products are very easy to use and apply because already cut to the standard sizes of any headfoil systems.

Custom widths and lengths are available on demand.

XXX stands for the standard width (001-002-003)

PHTXXX, PHBXXX and PHPXXX are available in any length and in this case the part code are PHTXXXC, PHBXXXC and PHPXXXC.



Part code	Color	Thickness		Width		Length		Compatible headfoil system
		micron	mil	mm	in	m	yds	
PHT001	Translucent	250	10	34	1.34	1.5	1.64	Harken Unit 0
PHB001	Black							J-Lift 5085
PHP001	Light grey							Tuff Luff 1205 and 1706
PHT002	Translucent			40	1.57	2.0	2.19	Harken Unit 1
PHB002	Black							J-Lift 5100 and 5095/R
PHP002	Light grey							Tuff Luff 2206 and 2506
PHT003	Translucent			51	2.00	4	4.37	Harken Unit 2&3
PHB003	Black							J-Lift 5115 and 5164
PHP003	Light grey							Tuff Luff from 3007 to 7608 and TL1003/4

PHT, PHB and PHP are available on request in any width and length up to 16.5m (18 yds)







LOOPX are the strongest man made adhesive tapes.

Tapes are available in two versions, reinforced with Endumax[®], a lightweight, highly effective and flexible UHMWPE tape and another one with Dyneema[®] Fibers, an ultra high strength fiber made of UHMWPE.

In the PLT series the thin and strong adhesive has two functions: to hold either the fibers or tapes in the desired position and to guarantee the adhesion between the layers when the loop is manually made.

PLS series has been designed to make laminated loops because the surface of the tape is treated for heatsealing.

With LOOPX high load and small loops no longer require skills and expertise, complex sequence of operations, complicated steps and tools.

Anybody can make his own loop in the length required, even very small and in just few minutes. It is very practical, translucent, strong and light.

Typical applications:

- bobstays
- runner attachments
- soft attach block

Part code	Color	Adhesive	Liner	Gauge		Tape width		Length		Working load*		Fibers/tape	
				micron	mil	mm	in	m	yds	Kg	Lbs	Quantity/Width	type
PLT0760120613T	Translucent	Acrylic	WKr	76	3	12	1/2	3	3.3	515	1134	1 x 6mm (1/4")	Endumax [®] tape
PLT0760190613T						19	3/4			1030	2269	1 x 12mm (1/2")	Endumax [®] tape
PLT0760250233T						515	1134			3 x 2mm (5/64")	Endumax [®] tape		
PLT0760250133F						25	1			1130	2489	3	Dyneema [®] UD fibers
PLT0760250133W						4120	9075			3 x 5	Endumax [®] twisted fibers		
PLS000012X1	--	--	--	210	8	--	--	1920	4229	1 x 12mm (1/2")	Endumax [®] tape		
PLS000019X1	--	--	--	210	8	--	--	3040	6695	1 x 19mm (3/4")	Endumax [®] tape		

Endumax[®] is an ultra high molecular weight polyethylene (UHMW-PE), produced by Teijin. Endumax[®] is a lightweight, highly effective and flexible PE-tape.

Dyneema[®] and Dyneema[®], the world's strongest fiberTM are trademarks of DSM. Use of these trademarks is prohibited unless strictly authorized.

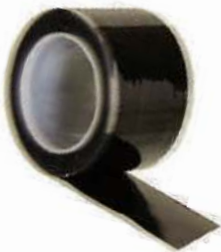
Liner WKr = White Silicon Kraft

#	Part code	Gauge	Color	Width	Length	Qty	Details
1	PCB500	500	Black	180	0,18	2	Front kite block wearing and tearing the gealcoat
2	PCB500	500	Black	180	0,18	2	Rear kite block wearing and tearing the gealcoat
3	PCT250	250	Translucent	60	0,40	1	Improve exit and drop of the kite/sliding over the deck
4	PCB250	250	Black	150	0,80	1	Bottom part of the mast
5	PML125	125	Ligth Grey	51	1,65	2	Cover both sides of the bowsprit case to improve the sliding
6	PML125	125	Ligth Grey	120	1,85	1	Wrap the bottom of bowsprit for sliding improvement
7	PML050	50	Ligth Grey	19	10,00	1	All purposes/rigging





WRAP & FUSING



WRAP tapes are self-amalgamating modified polyisobutylene tapes, designed to stretch and stick to itself, forming a very strong and waterproof bond without leaving sticky stains on boat fittings.

Products are available in black or white.

The narrow tape is ideal for rigging, screw terminals, electrics whereas the special wide rolls create a flexible, long lasting, good looking instant welding waterproof mast collar that will not leak.

It is easy to apply and fast and friendly to be removed.

FUSING tape is an affordable and highly functional, silicone, self fusing tape. It resists to moisture, oxygen, and ozone to assure continuous high insulation values and conforms smoothly when wrapped around complex forms and bonds to itself at room temperature within 24 hours.

This tape remains non-tacky to the touch and does not adhere to other surfaces, or substrates and insulates with single wrap, thereby reducing labor time and cost. gamating modified polyisobutylene tapes, designed to stretch
Typical applications:

- rigging, hardware and mast collar
- electrics
- spreader pins ad turnbuckles
- ideal for wrapping parts where build up can occur

WRAP

Part code	Color	Thickness		Elongation at break	Width		Length	
		micron	mil		mm	in	m	yds
PWB500	Black	500	20	700	25, 100	1, 4	2, 10	2.2, 11
PWB800		800	31.5	900	150, 250	6, 10	10	11
PWW500	White	500	20	800	25, 100	1, 4	3, 5	3.3, 5.5
PWW800		800	31.5	900	150, 250	6, 10	10	11
NEW PWB2MM	Black	2mm	80					

FUSING

PFB500	Black	500	20	500	25	1	3	3.3
PFG500	Grey							
PFW500	White							
PFC500	Clear							

BOW # is a new range of stickers for bow number and advertising made of bioplastic films that use renewable resources to reduce environmental impact. The solution has been designed for a sustainable end of life while guaranteeing similar performances of traditional products.

At the end of the racing series the sticker removed from the boat can be disposed with the organic waste because made of biodegradable and compostable materials.

Unfortunately some stickers do peel off from the hull while racing because of poor application, water splashes and sprays, then dragged by the waves, currents and tides and generally end up on the beaches or deposit on the bottom of the sea.



The potential damage caused by the stickers released at sea is mitigated by rapid biodegradation.

The marine biodegradation of material used for PROtect **BOW #** takes place even in natural conditions, such as the marine environment, relatively quickly. In fact, samples of were exposed to marine sediments taken from the coastal area and the biodegradation was followed by monitoring the metabolization carried out by bacteria that "digest" the bioplastic and the biodegradation have been achieved relatively quickly, less than 1 year.

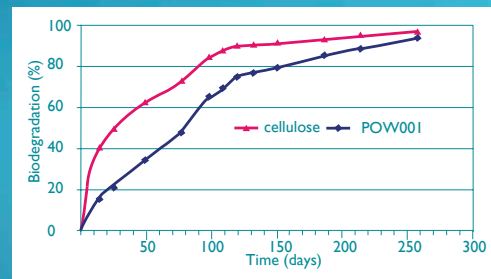
In particular, the biodegradation of the materials tested was more than 90% absolute or relative to a reference material, such as cellulose.

Bioplastic films are suggested for 7/10 days events or shorter.

We offer a turn key solution for racing event organizers by printing, including variable data and die cutting to supply the whole stickers set event.

Typical applications

- Bow numbers
- Hull advertising



For more info on ETV



Part code	Color	Face		Adhesive	Liner		Recommended events
		Composition	Thickness		Type	Thickness	
PBW001	White	Compostable film	60	Acrylic	Glassine	50	7/10 days

The front is a white film, the adhesive is a permanent acrylic on the cold and the whole set is biodegradable and compostable with OK compost according to the European standards UNI EN 13432. The laboratory tests supervised by the Italian Institute of Plastics (IIP) were verified by Certiquality, as part of the European Commission's "Environmental Technology Verification" (ETV) pilot program

CUSTOM PROJECTS

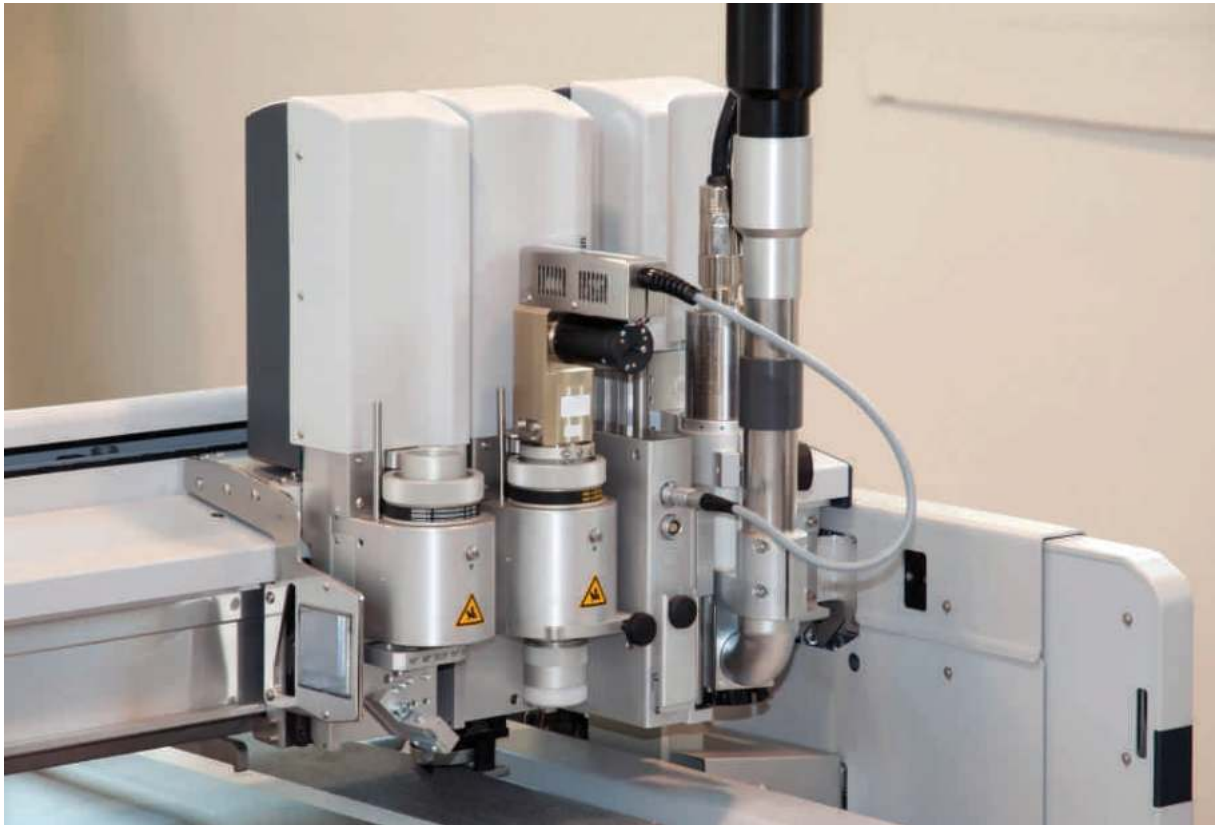
CUSTOM PROJECTS is a new service of PROtect tapes for our demanding clients looking for tailor made solutions.

Mast, boom, spreaders, deck, pad-eyes very often require unique sizes and shapes, we have therefore decided to create a team totally dedicated to focus to convert our products in special parts perfectly matching your needs.

Our team is closely work with you and design the parts you need, eventually modify them after a preliminary test and when approved, we will plot and die cut them using the most advanced technology available on the market.

Each part will be on file for further orders.

CHAFE, SHOCK, SHOCK PSX, SHIELD, MASK (all products on liner) can be cut by **CUSTOM PROJECTS**.



"Our challenge to break the world sailing speed record was born when Xavier Lepercq, Benoit Gaudiot and I met at EPFL (Ecole Polytechnique Fédérale de Lausanne) in 2018. We were participating in a university radio-controlled foil boat competition, and PROtect tapes was already supporting the EPFL team with innovative and customized solutions.

In 2019, we launched the SP80 challenge: breaking the world sailing speed record and reaching 80 knots with a kiteboat. Today our project has evolved into a company, with a passionate and determined team of about 50 engineers, communication professionals, students and volunteers. Keeping in mind the support PROtect tapes gave us during our student years, it was obvious to have them by our side in this adventure.

On the market, there is a large quantity of tapes that can be used to protect, repair, and fairing certain parts of our prototypes and our boat, but it is not easy to find a really adapted, simple and clean solution that solves a given issue. With PROtect tapes we have an innovative solution for all our adhesive needs. They have the knowledge and flexibility to always offer us the right products that fit our needs. This is a huge asset that simplifies a multitude of small tasks for the team and the development of our prototypes.

Our record-breaking boat will be in the water in 2022 for her first sail and it is clear that PROtect tapes products will be on board when we will attempt the record."

[Mayeul van den Broek - SP80 Co-founder & General Manager]

PROtect tapes is Technical Supplier to SP80 - www.sp80.ch





ROPE & SHRINK

ROPE is a smart and clever idea to identify forever ropes, halyards, running rigging and sheets on-board, into the container or van.

It is a heat shrink polyolefine tube with shrink ratio 2:1, available in different diameters to cover all possible needs.

Simply insert the tube at the end of rope, gently heat the tube using a suitable heat gun, hair dryer or just boiling water and the tube will wrap up it.

The material is writable with a permanent marker pen to have handy some relevant information (use, manufacturer, configuration, sailing hours, etc) and log it using the unique serial number.

Printing of your logo, variable data and other colors on demand.

Typical applications:

- mooring lines
- ropes
- halyards, running rigging and sheets



SHRINK are PTFE heat shrink tubes providing a state of the art method for the application of a tight, protective covering to items that will be subjected to the tough conditions.

It is the ideal method for the application of a tight, protective jacketing to items that ultimately will be subjected to extremes of heat, corrosion, shock, moisture, or other critical environmental conditions.

Provided in the expanded state, heat shrinkable tubing shrink wraps intricate and irregular shapes with a simple application of heat.

The application of heat shrink tubing extends life, increases reliability, and improves performance of the boat hardware.

SHRINK has ratio 4:1. The product requires at least 650°F/340°C to recover.



ROPE

Part code	Color	Diameter unshrunked		Diameter shrinked		Length	
		mm	in	mm	in	mm	in
PRW125-2	White	12.50	1/2	6.25	1/4	100	4
PRW190-2		19.50	3/4	9.75	3/8		
PRW254-2		25.40	1	12.70	1/2		
PRW125-2S		12.50	1/2	6.25	1/4		
PRW190-2S		19.50	3/4	9.75	3/8		
PRW254-2S		25.40	1	12.70	1/2		

SHRINK

Part code	Color	Diameter unshrunked		Diameter shrinked		Min length	
		mm	in	mm	in	m	ft
PHST125-4	Clear	12.70	1/2	3.66	1/8	1	3.3
PHST158-4		15.88	5/8	4.52	5/32		
PHST190-4		19.05	3/4	5.70	3/16		
PHST222-4		22.23	7/8	6.20	7/32		
PHST254-4		25.40	1	7.06	1/4		
PHST317-4		31.75	1 1/4	8.82	5/16		
PHST381-4		38.00	1 1/2	10.20	3/8		
PHST508-4		50.80	2	14.12	1/4		



© Davide Piras



SPK is an innovative system developed by PROtect tapes with the support of professional sailors to hoist gennaker and spinnaker much safer and to respect the environment.

Today there are various solutions to pack these sails, some very expensive, others less safe.

In designing the product, special attention has been devoted to the material and the choice went to of buttons made of recycled materials.

They must be applied to the luff tape of the sails.

They can be glued, sewn (SPK002 designed for sewing by sailmakers) or screwed (SPK001MS suitable for manual sewing only). All methods are very simple, no special skills required.

Additionally, the characteristic V-shaped groove is capable of retaining the thread till the sail is dropped. At first the end of the string is wrapped around the button then around the compacted sail and finally around the button again.

The operation is very simple and can be performed by one person only.

There are no more knots, reducing the time required to compact the sail.

When the sail is set and threads broken, the sail gives all its propulsive force.

The broken threads are retained from the throat of each button, without falling into the sea, whether of wool or biodegradable and compostable material like our yarn ball SPK003; the crew will then remove them when the sail is lowered or at the end of the race.

Benefits:

- all materials are recycled and recyclable
- increased reliability and lower cost
- environmental friendly use
- less dexterity is required
- no need for help to compact the sail
- compliance to the regulations of our sport and the code of ethics
- standardization of the packing process
- possibility to pack only one portion of the sail
- reduction of the sail preparation time



Part code	Breaking load		Lenght		Recommended boat length
	kg	lbs	m	yds	
SPK003S	3.0	6.6	100	110	up to 70' (21m)
SPK003SX NEW	3.0	6.6	650	711	up to 70' (21m)
SPK003M	4.5	9.9	80	88	over 70' (21m)
SPK003MX NEW	4.5	9.9	500	550	over 70' (21m)

Part code	Flat surface for sewing	Double sided adhesive	Screw/nut	Hole for screw/nut	Sewing holes	Description	Qty/pack
SPK001	●	●	●	●	●	Most flexible kit	8
SPK001MS		●		●		Manual sewing	8
SPK002	●					Sailmakers	100
SPK002L (large)	●					Sailmakers NEW	100



"We used PROtect tapes and they always performed exceptionally well. It's great to work with a company that will develop products to suit your needs. Thanks PROtect tapes."
[Don Cowie, Momo]



SKID series are anti slip tapes designed for racing yachts and boats. Series 80 and 60 are solutions when heavy duty slip resistance is required because made of tough, durable, special stones capable to last longer, embedded in extremely strong, all weather polymer substrate coated with a powerful, high bond rubber pressure sensitive adhesive and liner. Series 45 and 54 are anti slip resilient tape with low and heavy embossed anti-slip rubber coated PVC that has been engineered with an aggressive acrylic adhesive and liner. Light weight, easy installation, conformability and durable anti slip qualities. Available in a wide range of colors to match you needs. The offer is wide: narrow rolls and jumbo rolls that can be cut to size on site or easily create templates specifically for your boat.

NIGHT series are photolumiscent adhesive tapes suitable for signage.

Typical applications:

- boat deck and cockpit
- stairs and ladders
- any slippery surface that is walked on



SKID & NIGHT

Part code	Color																Width		Length			
	Black	Grey	Light Grey	Beige	White	Green	Orange	Red	Brown	Clear	Blue	Light Blue	Yellow	Photoluminescent	Black glow tape	Yellow fluo	mm	in	m	yds		
													day	night	NEW	NEW						
80	PAB080																51 1219	2 48	3 18.3	3.3 20		
60	PAB060	PAG060	PAL060		PAW060	PAV060	PAO060	PAR060	PAN060	PAC060	PAU060	PAE060	PAY060	PAP060	PAD060*	PAF060	51 1067	2 42				
30 Smooth										PAC030									10	11		
54 Resilient	PAB054	PAG054		PAI054	PAW054					PAC054												
46 Coarse Resilient	PAB046	PAG046			PAW046					PAC046									51	2	3 18.3	3.3 20
557 Photo Lumiscent														PNP557								

*PAD is available in 50mm only (18.3m, 3m and custom length on demand)

WING

WING is all you need for wingsails.

WINGLAR™ is a special membrane available in different gauges, all very strong, tough, clear or pigmented, biaxially oriented, heat shrinkable, printable film. The films have high shrink force for superior bundling capability, high tear, impact and abrasion resistance, high gloss, clarity, excellent printability and UV stability.

A strong membrane is useless without an equally strong double sided tape with carrier and asymmetrical acrylic adhesive to perfect match the properties of the membrane and the carbon fiber frame.

The final seamless touch is given by a clear, thin layer to cover and protect the edges of the film.



Typical applications:

- Wing sails
- Cross beams

MEMBRANES

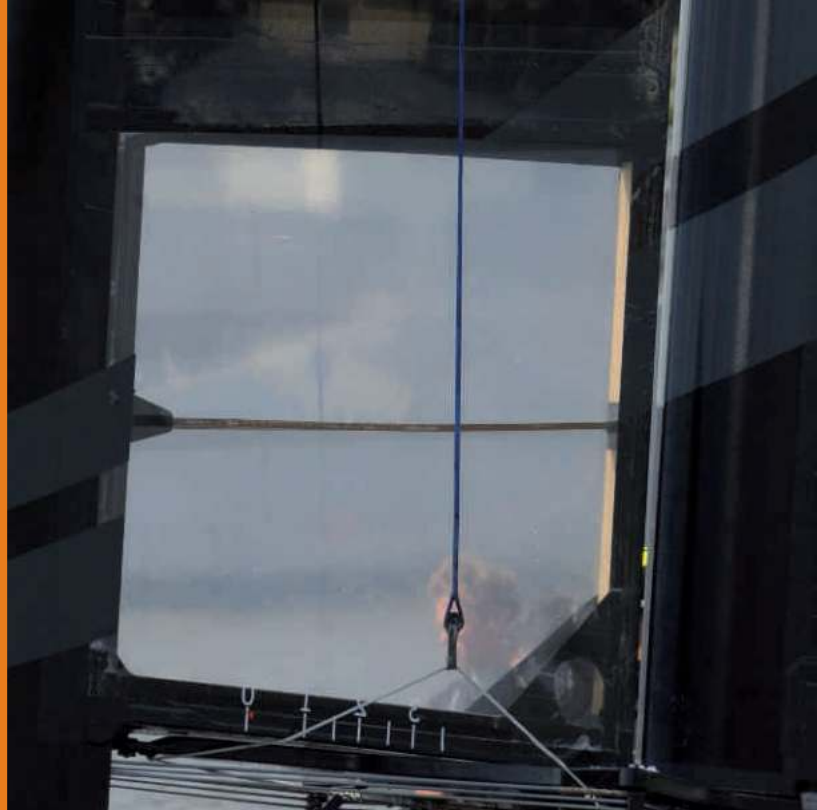
Part code	Color	Thickness		Width		Applications
		micron	mil	m	ft	
PWC013	Clear	13	0.50	1.6	5.25	Small wings
PWC016		16	0.65			
PWC019		19	0.75			
PWC025		25	1.00			
PWC032		32	1.25			
PWC038		38	1.50			
PWC050		50	2.00	3.3	10.8	Cross beam of smaller than 40'
PWC075		75	3.00			Cross beam of 40' and above
						AC45/48 and bigger

Available pigmented as well, MOQ applies. PWC075 was approved by ACM Committee for the 35th America's Cup

SINGLE AND DOUBLE SIDED ADHESIVE TAPES

Part code	Carrier	Color	Adhesive	Thickness				Width		Length		Purpose	Notes
				carrier		adhesive		mm	in	m	ft		
				micron	mil	micron	mil						
PWD04739	Polyester	Clear	Acrylic	25	1.0	88	3.45	19, 25, 50	3/4, 1, 2	50	164	Link between the membrane and the wing	Double sided adhesive tape
PWD04839				13	0.5	95	3.75						
PWD01357				13	0.5	38	1.50	19, 25	3/4, 1	55	180		
PWS01328				23	0.9	37	2.36	50, 100	1, 2	66	164		

On PWD series the adhesive quantity is per side



SPIRAL & HANG

SPIRAL are solutions to protect the composite standing rigging, frequently damaged by jib and gennaker sheets increasing the risk of equipment failure and exponential cost for replacement.

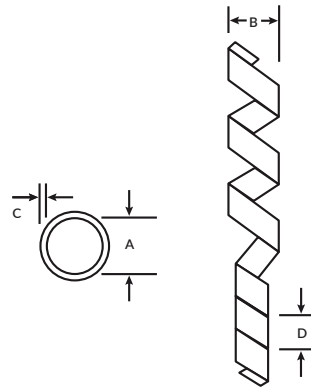
The product is spiral cut cable wrap made of PTFE, resistant to abrasion, expandable and applicable on standing rigging as it is or wrapped by MASK for more durable protection.

Typical applications:

- Standing rigging (V1, D1, stays, etc)
- Lifelines

Part code	Color	Internal Diameter A		Max Diameter B		Wall C		Pitch of helical cut D			
		mm	in	mm	in	mm	in	mm	in		
PRSO318	Tranlucent	1.59	1/16	12.70	1/2	0.76	0.030	6.35	1/4		
PRSO476		3.18	1/8	25.40	1			6.35	1/4		
PRSO635		4.76	3/16	50.80	2			9.53	3/8		
PRSO794		6.35	1/4	63.50	2 1/2			9.53	3/8		
PRSO953		7.94	5/16	76.20	3			11.11	7/16		
PRS1270*		11.11	7/16	101.60	4			14.29	9/16		
PRS1588*		14.29	9/16	127.00	5			15.88	5/8		
PRS1905*		17.46	11/16	152.40	6			0.81	0.032	22.23	7/8
PRS2540*		23.81	15/16	203.20	8			1.02	0.040	25.40	1

The length required is equal to the ratio between the ID and the cable diameter. If the cable is 5mm and SPIRAL is PRSO476, 1 meter will cover 0.64m. ID of PRSO476 is 3.18, therefore $3.18 : 5 = 0.64$. If the cable is 7mm, PRSO476 will cover just 0.45m because $3.18 : 7 = 0.45$. The best ratio is between 0.80 and 0.40. On demand from PRS1270 to PRS2540.



HANG is a gel grip tape made of PU and PU nano gel you can apply to the kitchen, bulkhead, toilet, navigation table and other places to hold and keep in place tools, pens, remote control, camera, phones, keys, mirrors and so on without slipping.

Washable, reusable, no adhesive residue.

Part code	Color	Thickness		Width		Length	
		mm	mil	mm	in	m	yds
PGC2000030050	Clear	2	80	30	1.2	5	5.5
PGC2000050050				50	2		





"PROtect tapes have worked with us over many years in forming solutions to the vast range of chafe problems experienced on maxi yachts. They have been helpful in the extreme. Always prompt with supply and very amenable to adapting their products to suit our needs. We rely on their products extensively."
[Mike Atkinson, Open Season]





COMPOSITE are PTFE tapes either glass coated or plain suitable for mold release in demanding composite constructions.

Tapes and adhesive (silicon or acrylic) can withstand the most challenging requirements and extreme operating conditions.

The thickness range is wide matching applications requiring excellent release, dimensional and superior thermal stability.

Release of composite part from the tooling on ejection is also key benefit of a properly designed mold and release characteristics normally relate to the coefficient of friction of the molding surfaces and release tapes play an important role.

In fact, the lowest coefficient of friction is not a material property, but a result of the contact system therefore influenced by the hardness, thickness, uniformity and smoothness of the surfaces, even more critical for small or negative draft angles.

Typical applications:

- male or female mold release

Part code	Color	Adhesive	Liner	Gauge				Adhesion		Elongation at break %	Width		Length	
				film		adhesive		N/cm	oz/in		mm	in	m	in
				micron	mil	micron	mil							
PMF076L	Brown	Silicon	Yes	76	3	51	2	4.37	40	3	up to 1000	up to 39.37	33	36
PMF125L				125	5									
PMF150L				150	6									
PMC050	Grey		--	50	2	38	1.5	3.28	30	140	25 51 102 min 7 max 564	1 2 4 min 1/4 max 21.5		
PMC050L			Yes											
PMC076			--											
PMC076L			Yes	76	3									

PMF and PMC series available with acrylic adhesives too.

DUCT & SEAL & NO LEAK

DUCT tapes are a high quality general purpose colored tapes made from polyethylene-coated cloth coated with a natural rubber and synthetic resin adhesive system.

Tapes will conform well to irregular surfaces and will not twist or curl during application, hand tearable and tears evenly across the web of the cloth and provides excellent water and abrasion resistance.

Available in the standard silver and seven other colors.

It can be used as a quality moisture and waterproof tape and for easy and quick fix, reinforcing, color coding, ductwork sealing and seaming.

SEAL are tapes are specialty masking tapes combining LDPE films and HDPE cloth coated with acrylic adhesive. They are hand tearable, resistant, residue free and highly weather resistant and waterproof, free residual after removal. These features offer many solutions for masking, protection, holding, splicing, seaming, sealing. Since they does not leave residue on floors and surfaces, it makes maintenance operation easier.

NO LEAK is similar to SEAL but especially designed for airtightening and waterproofing. Permanent bonding.

Typical applications:

- moisture, waterproof and airtightening
- reinforcing
- color coding
- sealing
- seaming

DUCT

Part code	Color	Adhesive	Thickness		Width		Length	
			micron	mil	mm	in	m	yds
PDS290	Silver	Rubber	90	3.5	50	2	10	11
PDW290	White							
PDB290	Black							
PDR290	Red							
PDY290	Yellow							
PDO290	Orange							
PDL290	Blu							
PDG290	Green							



SEAL

Part code	Color	Adhesive	Thickness		Width		Length	
			micron	mil	mm	in	m	yds
PEW190	White	Acrylic	190	7.5	50	2	50	55
PEC190	Clear							
PEG190	Green							

NO LEAK

Part code	Color	Adhesive	Thickness		Width		Length	
			micron	mil	mm	in	m	yds
PNR220	Black	Acrylic	220	8.86	100	4	2.10	2.2, 22





INTERIOR & HAUL & EXTERIOR & NOSLIP



INTERIOR is the ideal solution for protection of delicate surfaces such as the boat interiors whether in construction, delivery, boat maintenance or racing. The product is a foam PE film laminated with LDPE and a removable acrylic adhesive.

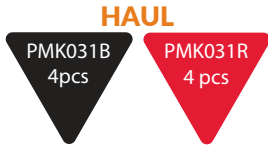
The low grammage adhesive is strong enough to guarantee a good adhesion and at the same time the low tack do not damage the surfaces protected; additionally no stain or adhesive residual once removed.

EXTERIOR is a clear polyolefins UV treated with low tack acrylic adhesive for the protection of the deck, hull and any part exposed to atmospheric agents and easy peel.

It is suitable for the protection of surface finishes from dirt and scratches and available in two versions with medium and low tack.

HAUL are small triangles adhesive to be applied on the hull to locate the propeller and speed sensors for the correct positioning of the bands during hauling and launching. Available in kit of four pieces red (PMK031R) and black (PMK031B).

NOSLIP is a range different solutions to make navigation or life on a boat even safer and more comfortable. PON200 is a thick non slip soft fabric with a multitude of uses available in black and white while POH200 provides grip hands on handrails also preventing bare hands freezing onto metal rails.



INTERIOR

Part code	Color	Adhesive	Gauge				Adhesion		Elongation at break	Width		Length		
			film		adhesive		N/cm	oz/in		%	mm	in	m	yds
			micron	mil	micron	mil								
PIW2000	White	Acrylic	2000	80	10	0.4	1.0	9.1	<200	250, 625, 1250	10, 25, 50	25	27.3	



EXTERIOR

PEX200	White	Acrylic	80	3.15	10	0.4	0.8	9.1	>300	150, 300	6, 12	500	550
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NOSLIP

Part code	Color	Sizes		Description
		metric	imperial	
PON200B	Black	50mm x 25m	2" x 27.3 yds	Thick soft fabric
PON200W	White	100mm x 25m	4" x 27.3 yds	
		1500mm x 1000mm	59.05" x 39.37"	
POH200B	Black	25mm x 25m	1" x 27.3 yds	grip hands on handrails preventing freezing onto metal rails
		50mm x 25m	2" x 27.3 yds	



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