

Security and signalling tapes allow prevent different risks to improve security: warning of dangerous areas, reflecting and photoluminiscent marking, antislip to prevent fallings, inviolable tapes to ensure not opening of shipments and protective to avoid impacts or breaks.

Adhesivos Técnicos y Troquelados could supply a wide range of adhesive tapes of this kind; all of them are **highly technical**, according to strict international regulations. All our products meet the requirements. **Our experience is over 15 years**; just a good reason to trust us.

Highlighted products of this family are the following:

- PVC tapes for floor marking.
- Antislip tapes.
- Reflective tapes.
- Photoluminiscent tapes.
- Inviolable tapes.
- Polyethylene protective tapes.

Check our website for further information: www.atyt.es



Do not hesitate to contact our **sales advisors** to introduce you other products we have available that could solve adhesive needs of your company.

We always provide the best **quality - price products, quickly service**. Our **processing capacity** allows us to offer a fully **customized product, in a short time**; we can cut any of our references to the **width and the lengths you need**.

We can also deliver the product on a rewind **core designed for you**, with your logo, your website or the trade you would like. We also offer **fully finished product** in customized blister or shrink, to help its marketing.



Our clients are present In **all industrial sectors** such as wind power, ventilation, hot and cold air, construction, textile, furniture manufacturers, shoe industry, chemical industry, railways, shipyards, sport, stands mounting, automobile factories, auxiliary automotive industry, decoration, etc.

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PVC TAPE FOR FLOOR MARKING

Complete product range, one **colour and bi-colour**. Warning tapes allow comply with **regulations on health and safety** about hazardous areas. Approved according to European Directive 2000/53 EC (lead, chromium VI, mercury, cadmium).

Roll length: 33 meters; 0.16 mm thickness. Different widths available.

PVC flexible strip and **easy to apply**. Uniform unwinding allows a totally straight path. Easy tear. No contracts or off once applied.

Very high **adhesion**; even long-term on rough and irregular surfaces. **Excellent resistance** to abrasion, corrosion and moisture.



TECHNICAL CHARACTERISTICS

ADHESIVE PROPERTIES	VALUES	TEST METHOD
Tensile strength	25 N / cm	CEI EN 60454
Elongation	150 %	CEI EN 60454
Adhesion to steel	2.0 N / cm	CEI EN 60454
Adherence to support	2.0 N / cm	CEI EN 60454
Flammability	Self extinguishing	CEI EN 60454



APPLICATIONS:

- Industrial buildings and sporting events.
- Suitable for **indoor and outdoor** environments.
- **Good resistance** trafficking and machinery.

PVC tape colour	PVC Tape Bi-colour
White: General marking.	Black / yellow: radioactive substances, width and height restrictions, moving equipment and obstructions.
Yellow: Caution / Hazard.	Red / white: fire-fighting equipment, non-smoking areas and flammable substances.
Red: Danger / Prohibited.	Green / White: Safety equipment, first aid points, emergency exits and safety areas.
Blue: Mandatory / Protection.	
Green: Information / Direction.	

ANTI SLIP TAPES

Polyurethane resin layer on a polyester support, coated by polyurethane grains. Solvent acrylic adhesive. White paper liner. Total thickness: 0.78 mm.

It is **easy to fix**, because extra high adhesive. It is waterproof, resistant to impact, compression and mold. **High resistance** to salt water, detergents, motor oils and hydrocarbons.

Meets the requirements of **building technical code**.

Full range of **colours**: black, white, red, yellow, blue, clear, granite brown, black / yellow, and yellow photoluminescent.



TECHNICAL CHARACTERISTICS

ADHESIVE PROPERTIES	VALUES
Particle degree	Sand 60 (medium)
Tensile strength (PSTC)	7 Kgf / 25 mm
Elongation at break (PSTC)	80%
Dry ground slip resistance (slope <6% or stairs)	2 nd class
Wet ground slip resistance (slope <6% or stairs)	3th class
Application temperature	From -5 to +50 °C
Waterproof resistance	12 months
Grease resistance	8 months
Standard of use resistance	>24 months



APPLICATIONS:

- Applied on **slippery nonporous surfaces**, such as stairs, bathrooms, pools, showers, boats, machinery areas, etc.
- Keep its **anti-slip** qualities when it is **wet**. Widely used in **nautical industry**.
- Suitable for **outdoor use**.
- It is also a good **acoustic and thermal insulation**.

REFLECTIVE TAPES

Flexible reflective film of ± 115 microns thickness; very stable white paper polyethylene liner, 150 gr / m². **Reflects** incident light rays giving **excellent visibility, both day and night.**

Resistance to chemicals, solvents, most fats and oils, gasoline, aliphatic solvents, acids, salts and alkalis.



TECHNICAL CHARACTERISTICS

ADHESIVE PROPERTIES	VALUES	TEST METHOD
Reflectivity	White: 80 cd/lx/m	- 4 ° entrance angle and 0.2 ° observation angle
	Yellow: 50 cd/lx/m ²	
	Red: 14 cd/lx/m ²	
	Blue: 4 cd/lx/m ²	
	Green: 9 cd/lx/m ²	
Durability	4 to 5 years	Accelerated aging studies and real applications in vertical position and mild climate
Thickness (Film + adhesive)	0,140 mm	ASTM D-645
Tensile strength (23°C)	> 18 N / 15 mm	DIN 53455
Elongation at break (23°C)	< 8 %	DIN 53455
Peel 180° on stainless steel - 20 minutes of application (23°C)	> 15 N / 25 mm	FTM1
Contraction (48 hours, 70°C)	< 0,3 % (25 cm x 25 cm).	FTM 14
Application temperature	+ 10°C to + 40°C	
Use temperature	- 20°C to + 90°C	

APPLICATIONS:

- Roads, construction sites, security perimeter, slopes, obstacles, etc. **marking.**
- Special **applying for vehicles**, such as **trucks signaling.**
- To apply this treatment to warning and risk signals is a **regulatory requirement** in legislation of some countries.
- **It could be printed** with serigraphic printing inks.



PHOTOLUMINESCENT TAPE

It is a yellow-green phosphorescent vinyl film of 450 microns, non-radioactive, cadmium free. Acrylic permanent adhesive; 160 g / m² white PE kraft paper very stable.

Highly visible in the dark, after exposure to natural or artificial light. **Meets safety signs requirements** in accordance with DIN 67510 Part 1.



TECHNICAL CHARACTERISTICS

ADHESIVE PROPERTIES	VALUES	TEST METHOD
Durability	Indoor use: 5 years. Outdoor use: the durability is reduced and depends on the exposure conditions.	
Thickness (film + adhesive)	0.500 mm	ASTM D-645
Elongation at break	≥ 100 %	
Peeling adhesion 180° on stainless steel	- After 20 minutes: > 16 N / 25 mm - After 24 hours: > 23 N / 25 mm	
Dimensional stability	23°C	FTM 1
Contraction (48 hours to 70°C)	< 2.5 % (25 cm x 25 cm)	Tube test on aluminum
Use temperature	- 30°C to + 70°C	
Inflammability	Self-extinguishing	Tube test on aluminum: ISO 3795
Luminance (brightness period) when the film is initially charged to 1000 lux for 5 minutes	- After 10 minutes: 100 milicandels / m ² - After 60 minutes: 13 milicandels / m ²	DIN 67510
Radioactivity gamma spectrometer	No artificial radioactivity	
Weight (film + adhesive)	625 gr / m ²	

APPLICATIONS:



- Absorbs emitting light into the darkness for **up to 6 hours**, depending on time and quality of light that has been exposed.
- Enables **signal** exits, tunnels, exits and stairs nightclubs, work areas and any other area that can be affected by the temporary absence of light.
- The product should be **brushed regularly** to ensure they are kept free of dirt and other materials that may impair its functionality.
- **Can be printed** with screen printing inks.

INVIOLETALE TAPE

Polyester film support with acrylic adhesive.

Ecological tape without harmful solvents.

Its **application is simple** and effective, allowing to verify the handling of packages easily.

Standard and custom brands printing on it.



TECHNICAL CHARACTERISTICS

ADHESIVE PROPERTIES	VALUES
Support thickness	23 microns \pm 3%
Total thickness	42 microns \pm 6%
Tensile strength	\geq 4'7 Kg / cm
Longitudinal elongation	\leq 140 %

APPLICATIONS:

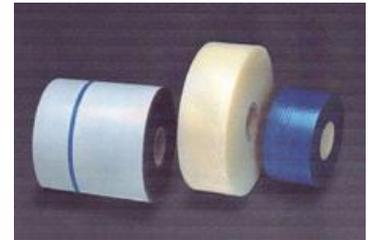
- Ensure **effective protection** throughout the supply chain.
- Provides evidence when there has been manipulation.
- Creates transparency, security and confidence.
- Allows to **seal cardboard** boxes of any size.
- Protection of works of art, **jewelry** and **valuable packs**.



POLYETHYLENE PROTECTIVE TAPES

Protective with **polyethylene** support, available in several **colors**: clear, white, green, blue, etc.

One side coated with **pressure sensitive adhesive (PSA)** or temporary adhesion material. The formulation allows **easy repositioning**, **without leaving any adhesive residues** on the protected surface.



Available in **different thicknesses**: 35, 50, 60, 70, 100 or 110 microns for optimum adaptation to the surface to be protected. The degree of protection is directly proportional to the average thickness of the film.

It is functional in the range of temperature between **- 40°C and + 80 ° C**.

It is possible to fully **customize this range**, providing protective products with client's brand, in the length and width required.

TECHNICAL CHARACTERISTICS

ADHESIVE PROPERTIES	VALUES	TEST METHOD
Density	922 kg/m ³ + 1	UNE 53852
Longitudinal tensile strength	≥ 150 N / mm	UNE-EN ISO 527-3
Transverse tensile strength	≥ 100 N / mm	UNE-EN ISO 527-3
Longitudinal strain at break	≥ 450 %	UNE-EN ISO 527-3
Deformation of transverse rupture	≥ 600 %	UNE-EN ISO 527-3
Dynamic coefficient of friction	< 0,25 ADIM	UNE 53268
Impact resistance	≥ 70 G	UNE 53 219
Adhesive weight	3,50 + 100 g/m ²	
Peel adhesive strength	3,40 + 0,50 N / 50 mm	FTM 1
Peel strength	≥ 80 hours	FTM 8



APPLICATIONS:

- **Temporary protection** of surfaces such as stainless steel, aluminum, metal sheet, plastics, PVC, acrylic, forex, wood, glass, etc.
- Ensures **the perfect conservation of protected surfaces** and therefore reduces non quality costs.
- **Leaves no adhesive residue** upon removal.