

proxima[®]

S.p.A.



PROCESSING AND DISTRIBUTION OF PRODUCTS FOR THE INDUSTRY



Proxima S.p.A. is an Italian company with more than 60 years of history and experience in the market. It is distributor of popular international brands such as 3M, NITTO, TESA, HENKEL, SCAPA, SIKA, BOSTON AND VELCRO. Proxima has specialized in industrial supply of adhesive products: single and double sided adhesive tapes, adhesives, sealants, abrasives, identification labels, safety and special products (Velcro, Dual Lock, electrical products and UV protecting films). Since 1990, next to the commercial department, Proxima has added a production department equipped with the most cutting edge instruments, used to produce and convert single and double sided adhesive tapes die-cutting at customer drawing.

Moreover it carries out the tapes lamination on different supports and produces double sided adhesives also in sheets.

Cut and die-cut of foam products complete a range of articles directed to the entire industrial market, both in the automotive and in other fields.

In 2014 Biemmea has been merged by Proxima which has also increase its influence in the centre of Italy.

Today, the great quality of products and the quick service allow Proxima to be recognized between the main companies in Italy in this field. Proxima is official 3M, Tesa automotive converter and Nitto in Italy.



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Single adhesive tapes

Proxima S.p.A. presents a wide and complete range of products to satisfy every needs, from the simple paper masking tape to metal tape (in aluminium, copper and lead), tapes with plastic carriers, vinyl, polyester, special tapes for high temperatures, protective tapes and special tapes for particular applications.

Technical single-adhesive tapes today can be used for each kind of application: mask, wiring, decors, thermal screen, esthetic protections, seals, labels and each kind of closing..

Looking at plastic and polyester adhesive tapes we can underline how these products are among the more versatile especially for the kind of conformability, colors variety and different available carriers. Possible application of these kind of tapes are unlimited, such as: masking in powder painting process, galvanic bath and fine-line , product's identification and color code, line marking in the warehouses, sealing in outside environments, permanent or temporary protection of each kind of surface, and many others.

The main characteristics that you can obtain with this kind of tapes are the high abrasive resistance, the great conformability on different supports, the chemical agents resistance, when required the clean removal of the tape itself, the long-life and the high resistance to high and low temperatures. Among the "special" tapes we point out the

adhesive tapes resistant to sand-blasting process, the teflon tapes antiwear for the permanent surface protection or anti friction to reduce noise and vibrations, polyamide tapes to mask in wave welding operation, tedlar tapes for outside use UV resistant and protective against the environmental corrosion. On the above mentioned carriers we can find different types of adhesive: rubbers, acrylics and silicones, in order to be able to range and choose between characteristics of high tack, excellent life time, great solvents and UV resistance and, not least, adherence values really high on the surfaces on which they are applied.



All above products are supplied by ProximaTecnologieAdesive inrolls cut in each kind of dimension or die-cut onrolls or sheets on drawing and customer requirement.



Double-sided adhesives

Research and Development laboratories and innovation of most important companies in the world producing adhesive tapes, that Proxima has chosen as its own partners, have allowed to create, over the years, a wide and complete range of products and applications for every kind of use. Double-sided adhesives on the market are in fact available in almost each kind of thickness, starting from a minimum of 0.03 mm up to 3 mm foams and double sided adhesives with no thickness limits. The supports on which the adhesives are coated can be of different types: plastic films such as polyester, polypropylene and pvc, polyurethane foams, of polyethylene or acrylic, paper carriers, cloth, scrim and TNT, special tapes such as VHB and acrylic foam or carrier-free unsupported tapes, only adhesive, the so-called



transfer. The carriers determinate part of double-sided adhesive performances such as conformability, thermic resistance, cohesive force of the tape, rigidity and other factors like the cut resistance, the kind of elongation, the handiness, etc.

The current adhesives are suitable to be used on the most part of substrates: metal supports, plastics with



high and low surface energy, rubbers, woods, ceramics, glass and other new generation materials, double-sided adhesives can reach structural resistance.

The adhesives used can be of different types, the most used are the ones with acrylic base (on solvent or water), hot melt, silicon adhesives and adhesives for special use such as modified acrylics and synthetics. There are different combination of adhesive/support that can satisfy, over than high mechanic strength characteristics, requirements for electro-conductivity or insulation, heat dissipation, acoustic absorbency and, if required, also an easy and clean removal of double-side adhesive by the substrate after the use.

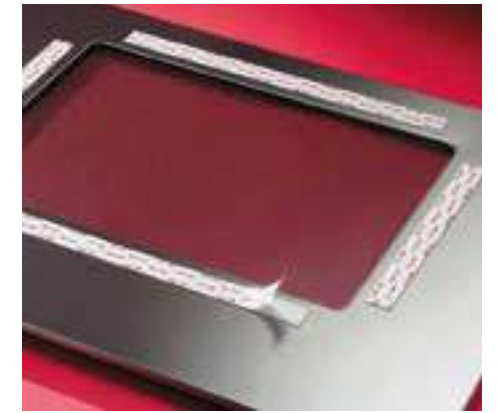


Acrylic foam and VHB

Among the several double-sided adhesive that we have in our range, an important category is the one of double-sided adhesive in acrylic foam, known in the market with the name of VHB (3M trade mark), ACX PLUS (TESA trade mark) or HYPER JOINT (NITTO trade mark). Double-sided adhesives in acrylic foam are between those products considered having an high surplus value : in fact, these adhesive polymers, allow to reach high strength bond on different kind of supports, joining also different materials. The elastic-viscosity nature of these products can compensate different thermic expansion coefficient on the surface on which are pasted, elongating wherever necessary and getting back to their original status without never break. Moreover acrylic foams allow, in just one step, to bond and hermetically seal interested areas. Applications made with these kind of tapes have no life limits and, once applied, increase their performances



in the time, granting a long-life and strong bond in all condition. In fact these tapes can be used both inside and outdoor environments, they resist to UV-rays, to the aging, to cold and high temperatures, to the solvents, acids, basics and different chemical agents. These tapes, over the high adhesion value (until about 10 Kg/cm) are also used as soundproofs



in those application where the noise pollution produced by the manufacture must be reduced. So there are no limits to the use of these products, that find different fields of application such as building, automotive, electronic, carpentry, white goods and furnishing industry, signing, glass industry, plastics material, rubbers, etc...



Adhesives and Sealants



Adhesives can be divided in different categories: solvent, water, hot-melt, epoxy, polyurethane, acrylics, siliconics, cyanoacrilates and others born for special uses.

The solvent adhesives are of course the more popular and used and can be available in different sizes

and chemical bases. These have been created for high performance bonding of plastics, rubbers and elastomers, such as neoprene and EPDM, vinyl materials, wood and metal. These products are really versatile and allow to be applied by brush, spray or roller with work-life depending on customer needs.

The evolution of solvent adhesives is represented by the range of water adhesives.

Of course their bigger advantage is the total absence of solvent, that make easier all transport operation, stocking, use and disposal. Provided of high solid contents, water adhesives offer ideal solution for the sticking of light material such as foams, mineral wool etc. and also on waterproof materials like aluminium and plastic plates.



Tapes for automotive industry

For many years the mechanic fastening system has been the only possibility to assemble mouldings, emblems, gaskets and other components. But in 1978, with the launching of 3M acrylic foams, a new and real revolution started for the fixing of external and internal components in the car.

Acrylic foams are characterized by their visco-elasticity that allows insuperable fastening of supports of different structure and origin. The advantages in using 3M acrylic foams to fix are different, considering both the use and the final performance obtained. In fact these tapes permit strong stickings and seals together with characteristics of acoustic and vibration absorbency, everything with just one product and one application. With this system, avoiding to drill plates, any risk of corrosion is deleted and fixing lines perfectly homogeneous are allowed, with both esthetic and aerodynamic advantages.

Acrylic foams have finally taken place on any element to assemble, both inside and outside the car, such as doors' gaskets, side mouldings, plates, emblems, perimetric masks for lights, front grilles, decorative elements and internal accessories.



These products, supplied cut in tapes at customer measure, or die cut in every shape or dimension, on tape or on single pieces, allow a quick use by every operator, strongly reducing the costs for time and system use.

We can state that, after about 30 years from their first use, acrylic foam tapes don't have any application limit: thanks to constant research of new technologies and new products ranges we can approach without any problem all kind of fastening on all kind of material and in all environment condition where fixing will be asked to resist.



Identification systems



Never as in the last decades industry has created “information”.... The sentence could be sound arguable but the production systems have rightly felt the need to transmit important information to their customer on the kind of purchase done, on the production lot, on the due date, on the instruction about the right way to use and so on. All different and important information about a particular product are now printed or coded on an adhesive label that is pasted on the product itself.



So, among the more usual application, we will find safety seals, labels for control, certification, instruction, anti-damaging, etc.

The several advantages that an “identified” product offers to its end-user or customer are evident:

- speed up pre-marketing operation;
- distinguish the products from the competitors ones, pointing out the mark and protecting, in this way, identity and value;
- contribute to increase and maintain the products fidelity;
- give a set of important information in the time (spares availability, life, inventory managing, danger warning, drawing of electric circuit, etc.)

Industry has acknowledge this technology in the most different fields: automotive industry, general industry, electronic, transports, household appliances, etc.

Of course there are different material for labels, starting from the paper ones, used for general and low value application, to the vinyl ones, more conformable, and the more specific ones,

in polyester, versatile and with good performances, without forgetting the special carriers. 3M materials more used are vinyl and polyester, but the range include also some special papers for pharmaceutical use, Acrylic and kapton for highest temperatures, polyurethane ultra-destructive for safety materials and other: in any case all of these always guarantee a longer life then the product itself on which they are pasted.

The print of the labels can be done through thermal transfer, serigraphic print, incision laser print. In any case the manufacturer can organize himself with his own printer for the internal mark, otherwise Proxima is able to offer also this service.



Also about the die-cutting on the dimensions required by the customer Proxima offers a great service talking about flexibility, execution quickness and volumes required.



Abrasives and safety



Among different items available, abrasives have an increasingly important role to complete the range of products that Proxima can offer to its customers.

Abrasives divide in two categories: rigid and coated. Rigid abrasive are mostly used in the field of heavy and light carpentry, mainly to clean welding

with cutting discs, grinding discs and flap discs specific for such a kind of use.

Coated abrasives are distinguished on the kind of carrier on which minerals are located.

Most used are the carriers in paper or cloth while minerals used can be of different nature as aluminium oxide, zirconium, trizac, cubitron, diamond, micro-abrasives and Scotch Brite.

Moreover coated abrasives distinguish on the kind of grain, that is the quantity of cutting



minerals present on the carrier. The choice of the kind of grain, usually identified with the P letter followed by a number, is set by the kind of use, more or less hard, that abrasive will be subjected. Coated abrasives are mainly used for roughing, finishing and polishing operation and they are supplied in different sizes: discs, coils, tapes and mills, converted on specific customer request to better accomplish with his working requirement.

Industrial fields that mainly use abrasive technologies are: wood and mechanic industries, carpentry, nautical sector and automotive.

Always, for that personnel that uses abrasives, and not only abrasives, personal protection devices are essential, better known as safety articles. Proxima has in its range different kind of safety devices, in particular has specialized in head protection that counts, over filtering masks to protect upper respiratory tract, helmets, visors, ear plugs, earphones, protection glasses and welding shields. All these articles are available in different versions, with different protective values and performances, to use basing on the kind of work that end-user will do and, as consequence, basing on the risk that he will run.

So Proxima is, for his customers, the global supplier of products and working systems and can greatly support his clients, in their interest, guiding, suggesting and supplying the right products that can satisfy, with the best quality/price ratio, every different requirement!



Rubber and foams

Expanded foams are plastic materials presenting cellular structure following a production process of thermal and/or physical expansion. They are characterized by high insulating properties (thermal, acoustic, electrical) and are used in various applications where insulation, protection, sealing, filtration and spacing are required. They can be supplied as non-adhesive and adhesive, in sheets and plates, in rolls or die-cut according to customer specifications. Among the typical features of expanded foams, in addition to the characterization of open or closed cellular configuration and the chemical base used (polyurethane, polyethylene, melamine, polystyrene, vinyl, etc.), we can identify density, compression deflection, water absorption, permanent deformation resistance, linear shrinkage, elongation at break, tensile strength, tear resistance, ozone resistance, fire resistance and operating temperature. By selecting the most suitable characteristics for the task to be performed, expanded rubbers can be used in many applications as vibration dampers, acoustic correctors, filters, gaskets,



packaging accessories, pads, protections, packaging, nautical, electronic, medical
spacers, shock absorbers, especially within and healthcare.
industries such as automotive and transport,

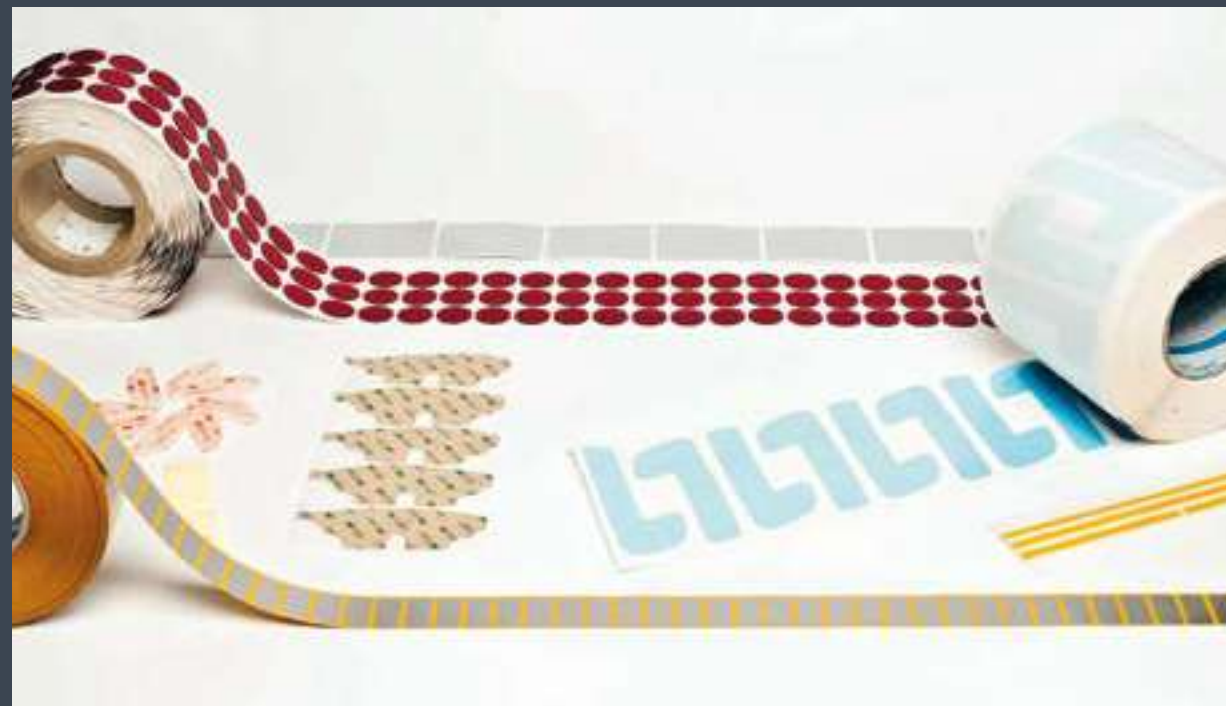
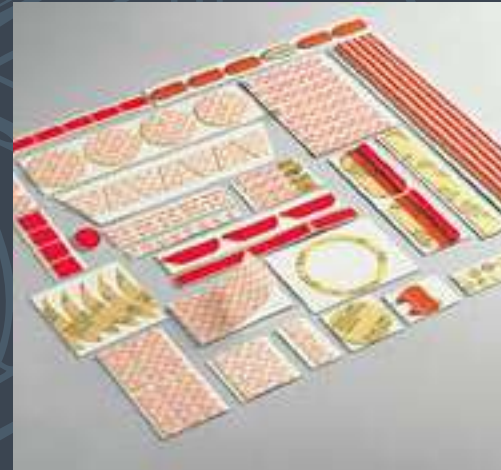


Manufacturing

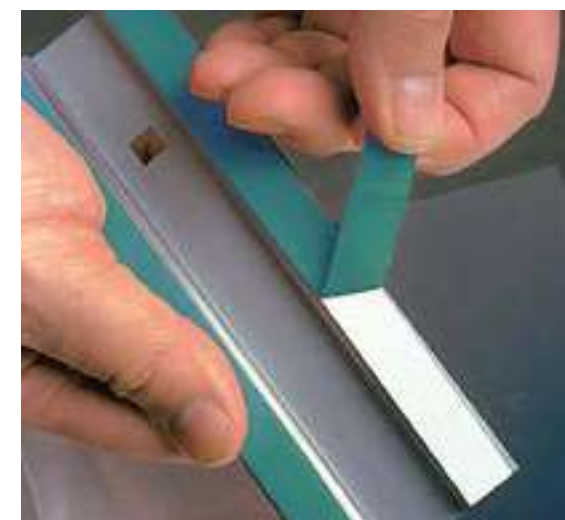
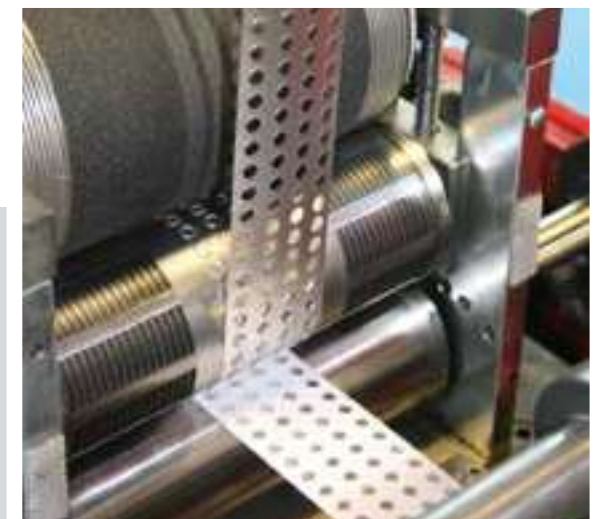
Proxima's production department, born over then 20 years ago, deals with all process related to the world of adhesive tapes, such as die-cut, cut, adhesivation, print, re-wind and assembly. Nowadays manufacturing represents for Proxima the company heart and the real strong point, because it allows to offer to its customer proper solution in really quick time.

Die-cut of adhesive tapes is the mechanic cut of single or double sided-adhesive tapes in the specific shape required by the customer. Then, the special adhesives, are supplied to the customer in tapes or single pieces, with cleaned outline and applied on a specific silconic paper that allows the removing for the use. This technic in the use of tapes allows the customer to save time in sticking operation and reduce waste material, especially in all those cases in which dimensions can be particular. Moreover it's Proxima's care optimize the drawing in order to reduce at lowest level the material scrapped.

To carry on these operations Proxima is equipped with last generation plain and round die-cutters that offer cutting edge solutions both in terms of production's capacity and quality control.



The custom-made cut of tapes is one of the first step that Proxima made in the direction of the personalization of products for his customers. This need born because the tapes' market offered, and still offers, standard sizes while many end-users need a tape's sizes ad hoc: exact measure to save money, material, application time. Tournring and milling cutters that now allow to cut adhesive and protective tapes are really modern machines, equipped with grinders, angle of incidence's meters, nonstop oilers... for an high quality result. Adhesivation and sheets production are the last manufacturing born, after the print of single adhesive tape, to complete the range of processes that Proxima is able to provide for his customers and partners, thanks to the most modern technologies used to perform his manufacturing. Proxima is also 3M and Tesa Automotive Official Converter.



Proxima products

Proxima long-term experience in the field of adhesive technologies has allowed the company, in the last years, to identify and produce, in cooperation with some of the main producers of adhesive technologies, a range of particular products coded with company brand. We are talking about items with particular technical characteristics really important, but also with a competitive market price. These strategic products allow Proxima to satisfy in a suitable way its customers' requests, being able to combine an excellent quality with an economic saving. The quality/price ratio of this range of products is the real strong point of the Proxima's brand products. Among these we can find: single and double-sided adhesive tapes, protective tapes (also without adhesive) acrylic tapes, labels, Velcro, butylic insulators, primers, etc. All these products are supplied to the customer correlated with all safety and technical data sheets necessary in the industrial world and they are products with high reliability and qualitative constancy in the time.



Special Products



Between The special products that Proxima is able to offer to his customers, the most interesting are Dual Lock, Bumpon and glass films.

Dual Lock

3M Dual Lock is a re-closable fastening solution, that uses mushroom-shaped stems that lock, audibly 'snap', together to give a mechanical fastening, secure and strong but re-closable.

Dual Lock is available in different version, depending on stem density per square cm and, as consequence, with a different closure and opening strength. Dual Lock has supplied with strong adhesive backings that adhere to substrate, suitable for the application on each kind of support, from metals to more difficult plastics. Dual Lock can be used in all industrial sectors, from transport industry (train, cars, boats, planes, etc), to the building market, advertising, furnishing, electronic and in each sector where time, costs, convenience and esthetic are primary needs.

Bumpons

Bumpons are real buffers or auto-adhesive feet composed of a polyurethane support combined with a strong acrylic adhesive with high performances.

The versatility of this product is its best quality: in fact Bumpons are available in all shapes and sizes, colors and dimensions on customer choice. With the increase of the range of transparent Bumpons, that take the color of the surface on which they are applied, all the problems about the pigmentation have been solved, unifying in just one color almost all chromatic needs of the market. We can see Bumpons everyday used as feet under our domestic appliances, personal computer, housewares, stands and each kind of objects, or used as stops, spacers, and protectors inside wardrobes, drawers, cars, shower units, etc.





BUILDING TRUST



VELCRO



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