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What is pressure sensitive tape (PSA)? What are the advantages of pressure sensitive adhesive tapes (PSA)? What kind of leagues are used for PSA tapes? What is the construction of typical pressure sensitive tape? What should you consider when making the right PSA tape selection? What is considered not a PSA tape? Pressure sensitive tape (also known as PSA, self-adhesive, self-adhesive glue) is an important category of tapes and a relatively thin flexible material with a one-sided or double-sided coating. PSA sticks to various substrates when applied to most clean and dry surfaces under pressure. Pressure Sensitive adhesives do not require solvent, water or heat to activate the glue. The binding is directly affected by the amount of pressure used to apply glue to the surface. Pressure sensitive adresses (PSA) are used in many different applications, and new uses are found almost daily. PSA's use continues to grow as a solution for mooring and joining due to the development, ease of use and low cost of adhesive technology compared to traditional fastening systems. The following is intended to give you the basics of adhesives and things to consider when determining the best glue for your app. What are the advantages of pressure sensitive adhesive tapes (PSA)? Thinner and lighter materialsBonds different materials without incompatibility problemsIncreasing vibration and noise absorption Adjust assembly time/how need for surface sanity Remove visible mechanical fasteners to cosmetic superiorityProvides uniform thickness and aperture filling propertiesHow are the chinks used for PSA tapes? Rubber: Adhesives based on natural or synthetic rubbers and shaped with tackifying-nastats, oils and antioxidants. Rubber is the most cost-effective PSA and provides fast adhesion. Rubber glue is not recommended for high-temperature applications. Acrylic: Glues shaped with acrylic polymer and generally have better long-term aging and more resistance to solvents and environmental factors. Acrylic adhesives typically develop a stronger bond than traditional rubber glue and are able to take in higher temperaturesSilicone: Shaped with silicone polymer and the only glue that binds well with silicone substrates. Silicone flags are relatively expensive and have very low initial degrees, but they can withstand higher temperatures than both rubber and acrylic glue. PropertyRubberAcrylicSiliconeCostLowestMed/HighVery HighTackMed/HighMed/LowLowTemp. ResistanceLowHighVery HighAdhesionMed/HighModerate/HighMed/LowShearMed/HighModerate/HighExcellentSolvent ResistancePoorGoodExcellentUV ResistancePoorExcellentExcellPlasticizer ResistancePoorModerate/GoodExcellent Surface Energy MaterialsExcellentPoor/ModeratePoor/High Surface Energy MaterialsExcellentModerateMikla is a typical pressure sensitive construction Tape? Single coated: Glue coated on one side of the material (Facestock). The glue is protected by silicone-coated release linings. Transfer tape: Adhesive film mass coated in the release film with a release layer on both sides. Transfer tapes provide good adaptability to irregular surfaces. Double coated: The carrier is covered on both sides with PSA. The adhesive carrier can be a wide range of materials, such as plastic films, tissues, nonwovens, etc. Typical uses are laminates and carpet tape. Self-injury: A carrier covered on one side with psa and on the other side with a release coating. These types of products do not have release mountains, Carton sealing, duct and camouflage are all examples of self-injury tape. What should you consider when making the right PSA tape selection? The Can-Do National strip offers a wide range of pressure-sensitive tapes and representatives to help you choose the best solution. However, below are 5 topics you should consider when buying a PSA tape.What is the material/substrate that glue sticks to? Which are the conditions in which tape is exposed, temperature, humidity, UV, chemicals? What is PSA's mission? How does PSA apply? Is it a permanent or temporary application? What is considered not pressure sensitive tape? Pressure Sensitive adhesives must be applied at pressure. Anything that, without pressure, would not be considered a PSA tape. Other tape strips may require solvent, water or heat to activate the glue. – Tape vocabulary – – Heat-activated tape – pressure sensitive adhesives (PSA) Pressure sensitive adhesives (PSA) are a unique glue class that forms a momentary binding at light pressure at room temperature. PSAs combine similar or different materials without activating water, solvent or heat. PSA's are permanently sticky and provide sufficient internal uniform strength to hold and bind the materials together without breaking down. This ability to create a momentary solvent-free bond under light pressure allowed PSA to gain world-wide approval across multiple industries, markets and applications. PSA is used in tapes, labels, assembly aids and other products worldwide. PSA's success is due to their relative ease of use, handyness, increased productivity and generally cost-effective tying or interior design solutions for alternative technologies. PSA performance pressure sensitive adhesives (PSA) are viscoelastic in nature, which means that PSA behaves according to liquid and/or solid fluid, depending on the environmental and stress conditions under which they are in any application and situation. PSA has a delicate balance between viscous (ability to wet and flow - bonding) and elastic (ability to resist flow, store energy - bone tolerance). Pressure sensitive chinks binding quickly and keep materials influenced by a diverse number of for example, environmental conditions such as time, temperature, humidity, etc. Chemical and structural composition of the glue itself. The performance of the glue is characterized by tak (the ability to bind immediately at light pressure), the shell (the ability to resist removing it from the surface) and the cut (the ability to resist internal uniform failure when subjected to cutting force). PSA classification Pressure sensitive adhesives (PSA) can be classified according to their chemical composition, the type of structure and/or the functional performance of the glue itself. Rubber, acrylic and silicone-based glues are typical PSAs-chemistries used by tape and label manufacturers. Due to their chemical nature, rubber, acrylic and silicone PSAs work differently. Rubber glues are commonly known for their excellent coat and high initial joint, high affinity for low-surface energy substrates such as polyethylene and polypropylene, from poor to fair UV durability and tend to be yellow. Acrylic adhesives usually provide excellent weather conditions and good clarity, good solvent resistance, low initial glue that can grow over time, good softener durability and good interchangeability (not as rough as rubber-based glues). Silicone cloths offer higher temperature resistance (>400 F), low shells and high cutting resistance. PSAs are often referred to for their functional performance, i.e. portable, persistent, or repositionable functional performances. Permanent adhesives are difficult to remove without damaging or destroying the tape/label or adhesive surface. Removable adhesives are separated purely from the adhesive surface without leaving any adhesive residues or damaging the surface or base. Reinvestable adhesives are of a lasting nature, but they allow the label or tape to be removed and reused after a short period of time when applied initially to the surface. Henkel has the widest technology and application portfolio of pressure sensitive glues. In an ever-growing market, we are constantly trying to expand our application spectrum of pressure-sensitive tapes, stickers and graphics. In Henkel, we have set up effective research and development centres (R&D: K), which serve different sectors of the PSA market. In addition, we have house polymerization features that allow us to offer a wide range of customized products. For our PSA business, we have established an efficient global supply chain for all relevant technologies. We are the only supplier offering four major PSA technologies: solvent-based acrylics, water-based adhesives, hotmelts and UV hotmelts. Most regions (Europe, America, Asia) have manufacturing assets for solution acrylics. For Hotmelt PSA, we use our manufacturing footprint to achieve full synergy potential with other markets (such as nonwovens and food packaging) and have more than 17 Worldwide. We use global global network efficiently for all technologies – provide our customers with consistent quality and a strong global player's assurance of security of supply. Henkel's TECHNOMELT® glue technology is a leading choice for best results in our customers' production processes designed to optimize coating line speed in PSA applications. TECHNOMELT® glues offer excellent operating costs and are reliable in terms of quality, reliability and efficiency. With Henkel's pressure-sensitive chinks, customers benefit from high pace and use in a variety of applications, such as ribbons, labels or medical products. Among the glue solutions are hot smelters that also meet food contact requirements. Henkelin TECHNOMELT® hotmelt range includes high/coat chinks for a variety of label applications, including food labels, clear labels, packing slip envelopes, universal permanent labels, fabric and ring labels, removable – reclaimed labels and special labels. Key advantages of these applications are: Good adhesion to various substrates, such as recycled paper, cardboard or PE Enabling high-quality label design for demanding applications, such as direct food contact, RFID or digital printing Good balance between adhesion and cohesion Excellent adhesion to dry, damp and greasy products Optimized for label Regardless of smooth portability from a wide range of surfaces and positionability Good performance at low temperatures For tape market, Henkel's TECHNOMELT® hotmelt range includes reliable adhesives for various tape applications, such as car tape, closing safety bags – bags, building – roof tape, electronic assembly, general-use durable tape, hook and rim tape, and sticky traps for insects. Key advantages of these applications are: Suitable for a wide range of applications, e.g. installation, insulation or safety Wide temperature operating window Good adhesion to PE and PP Very good UV resistance Excellent adhesion to carrier Very high stud and shell values Good attachment to non-polar substrations Low spraying and exhalation Very high SAFT Henkel's innovative TECHNOMELT® hotmelt range also covers glues for medical applications where skin contact is an essential topic, e.g. Key benefits of these applications include: Approved for skin contact applications (ISO 10993) Good attachment to various medical substrates High adhesion combined with good cohesion Good in humid conditions Clear glues for medical tapes and plastic clean removability Careful selection of raw materials Optimized for comfortable medium wear Henkel AQUENCE® water-based adhesive technology includes high performance used in various experiences using tape, label, graphics and medical markets. Glues are coating-ready and provide the advanced binding needed to respond to demanding applications in a wide range of end-use markets, end-use market. The AQUENCE® range enables our customers to improve their overall costs and product quality, thereby creating efficiency and reliability in the manufacture of pressure sensitive solutions. Henkel's AQUENCE®-based glue range consists of reliable solutions for many label applications, such as clear labels, universal permanent labels, drug labels and removable – recoupable labels. Key advantages of these applications are: Suitable for fast coatings Good adhesion to various substrates Recommended for beverage and household applications Superior water resistance Best class removable for paper and film resistance stocks Unique adhesion and cohesion balance prevents the labeling Marking of the Compatible with a wide range of pacemakers Henkel food contact statement available Good adhesion on both polar and non-polar surface Excellent die-cutability No label looks like Henkel's unique AQUENCE® water-based glue range, which also covers glues for important tape applications, such as foam – mounting tape. Key benefits of this app include: Ready to coat Aggressive grabbing and high adhesion to difficult surfaces Fast bonding Suitable for car applications Low VOC and fogging In addition to Henkel's AQUENCE® water-based portfolio includes state-of-the-art glues for graphics applications such as promotional graphics, removable protective film, exhibition graphics and architecture – corporate graphics. Key advantages of these applications include: Suitable for short-term and promotional graphics Good attachment to PVC and polyolefinic materials Good adhesion to non-polar surfaces Clean detachability from a wide range of surfaces Good resistance to film shrinkage Very high cohesion Henkelin comprehensive AQUENCE® water-based adhesive area is achieved with glue for medical applications where skin contact is essential, e.g. Key benefits of these applications include: Approved for skin contact applications (ISO 10993) Low trauma wound care Good attachment to fabric healeats Clean portability Excellent skin adhesion Good breathability Henkelin LOCTITE® solvent acrylic technology covering a wide range of pressure sensitive adhesives, is used in various applications in the tape, label, graphics and pharmaceutical industries. Glues are known for their strength and durability under unfavorable conditions and can withstand weather and chemical exposure. LOCTITE® provides excellent stopping ability, good tolerance to UV, cutting and temperature, customized designs across applications, and a wide range of shells and burdens that meet specific application requirements. Henkel's LOCTITE® acrylic range includes advanced adhesive solutions for numerous label applications, including durable labels, drug labels and removable – reconstructable labels. Key benefits of these applications Good adhesion adhesion substrates, like ABS, PVC, PS, PA, aluminum Very good multipurpose adhesives Clean removability and excellent reclamation Excellent cutting resistance Good dimension Stabilius Low transition General quality Henkelin LOCTITE® solvent acrylic range includes high performance adhesives for various tape applications such as car tape, spice tape, all-round durable tape and special tape. Key advantages of these applications are: Good low and high temperature performance Suitable for high adhesion, thermal seal or truck edge marking Toluene/ton Very good temperature resistance Good adhesion to different substrates, such as ABS, PVC, PS, PA and aluminium Very aggressive tactics For connecting different materials A very good peeling arrest in highly plasticized PVC banners Henkel's sophisticated LOCTITE® solvent acrylic range also includes glues for modern graphics applications, e.g. advertising graphics, oversized movies, vehicle graphics, traffic – safety graphics, removable protective film, exhibition graphics and architecture – corporate graphics. Key advantages of these applications are: Suitable for monomer PVC, polymer PVC and stone chip protection films Good attachment to different substrates, e.g. PVC, polymer PVC and stone chip protection films. film material Excellent optical clarity Recommended for car wrapping, for vinyl jackets, traffic markings or license plate materials Excellent hard-to-ite surfaces (LSE) Good cutting Capacity Extended outdoor use No accumulation of adhesion over time Excellent soften resistance Henkelin LOCTITE® solvent battery cover glues for medical applications such as wound dressings, medical tape, surgical curtains, electrodes and purchasing treatment. Key advantages of these applications are: Approved for skin contact applications (ISO 10993) Glues for small, medium and high tack Recommended for wound care materials and ECG electrodes Clean transferability A good attachment point for different carriers used in medical applications Excellent cuttingAbility Breathable High pin and shell Henkelin LOCTITE® DURO-TAK UV acrylic technology includes innovative pressure sensitive adhesives for self-adhesive applications with high standards, such as good temperature resistance and chemical resistance, sunlight or weather conditions. UV-improved glues support etiquette, electronic assembly, medical and yet other industries, offering a wide range of performance features designed to meet your manufacturing challenges. In addition, Henkel's UV hotmelt acrylic glue solutions help reduce emissions to the environment. Henkel's LOCTITE® DURO-TAK UV acrylic range includes highly durable adroma with numerous label applications, including clear labels, universal permanent labels, removable – re-enacted labels and special characters. Key benefits applications include: Excellent long-term UV and heat stability Very balanced balanced adhesion and cohesion Excellent chemical, Softener and aging resistance No label with very high transparency Suitable for wet wipes and bottle labelling Good handling ability Removable film and paper labels Good adhesion to non-polar substrates Low viscosity Henkel's skillful LOCTITE® DURO-TAK UV acrylic range also includes glues for modern tape applications, e.g. The main advantages of this application are: Suitable for cable wrapping and cable skewer Excellent adhesion to carrier High cohesion for pure hilarious Good heat resistance Good aging performance Low gas extraction LOCTITE® DURO-TAK UV acrylic portfolio is complemented by reliable adhesive solutions for a wide range of medical applications. Key benefits of this application are: Medical approval Good balance cutting and exfoliation Good attachment to PU film and nonwovens platforms Henkel aims to offer customers a competitive advantage by supplying special glues to numerous application challenges. These include solvent rubber pressure sensitive adhesives, PIB glues and starch-based bioadhesives. Learn more about our specialty sports and their special benefits for your apps. Henkel's DURO-TAK solvent rubber adhesives are designed to help optimize coating line speeds and withstand demanding industrial applications that require high adhesion and grip capabilities. We offer products that offer a range of permanent adhesion or easy removability. On the other hand, many of our products work equally well on sensitive skin for medical or cosmetic applications. Henkel DURO-TAK polyisobutylene adhesives (PIBs) offer different chemical compositions and performance properties to ensure that formulators are found with a good equivalence with their medicinal product. Henkel is also willing to offer customized polyisobutylene compositions for your new patch development. Henkel's own PROLOC bioadhesive technology provides an excellent way to deliver therapeutic agents locally and over mucous membranes at different absorption sites. PROLOC bioadhesives increase bioadhesive properties and capacity of a higher drug load, but remains gentle on the mucous membrane. The PROLOC system can be packaged as a tablet, used as a powder or cast as a film. Several clinical trials have been conducted to demonstrate the success of drug deliveries in mucous membranes or local treatments using proloc technology. Technology.

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