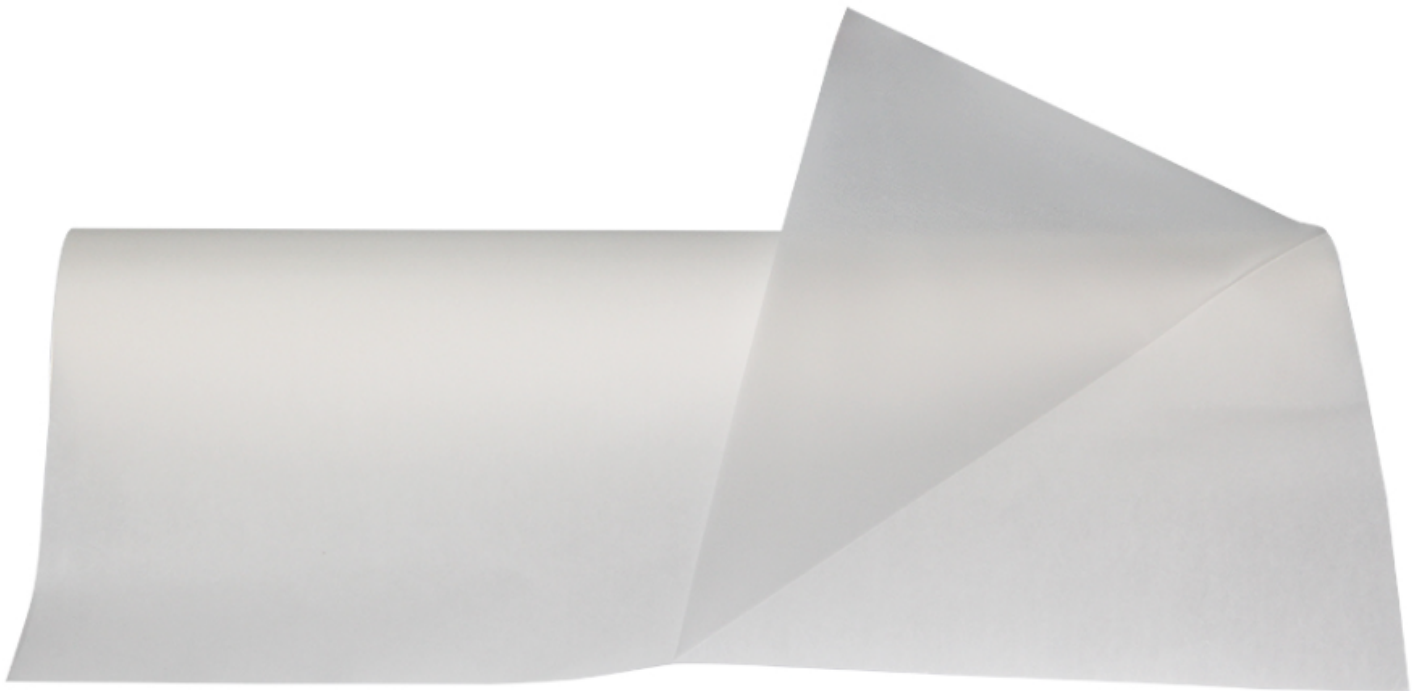


# Characteristics and application of TPU Hot Melt Adhesive Film

## Detail Introduction :

To understand the properties and applications of TPU hot melt adhesive film, it's helpful to know more about it. The following are its characteristics and applications. Ultimately, this type of adhesive film is suitable for many applications. If you're looking for an adhesive film for the first time, this article will give you all the information you need. If you're looking for a solution for a particular application, consider using TPU hot melt adhesive film.

## Application



The main applications of TPU Hot Melt Adhesive films include the bonding of various textiles. These films have the advantage of being extremely elastic and can continuously bond large surfaces, which makes them an ideal choice for a wide range of applications in the building, automotive and sports industries. These films can be applied in a variety of thicknesses and activation processes, depending on the application. For example, lightweight TPU films are easy to weld to other substrates, such as polycarbonate and Dureflex. They also have outstanding properties and can be used for many other applications.

The application of TPU Hot Melt Adhesive films can be done using a variety of methods. It is commonly applied to laminated fabrics, leather and plastic materials. Moreover, the application is easy, as the material is ready to be cut once it has been laminated. Its advantages include excellent adhesion and resilience to different kinds of materials, as well as high heat resistance. In addition, it can be used in compound lamination.

The melting temperature of TPU Hot Melt Adhesive films varies. One can choose the melting temperature of the film that best fits the application. TPU Hot Melt Adhesive Film has several melting

points, including low, medium, and high. The low-melting-point type is best suited for leather materials, as its melting point is below 120 degrees. TPU Hot Melt Adhesive Film is widely used in the construction industry, and it has passed SGS's RoHS 2.0 testing.

Industrial applications of TPU Hot Melt Adhesive films are varied and include packaging containers, carton-sealing and pallet stabilization. Hot melts are a versatile adhesive that offers high strength, low cost, and ease of application. In addition to their versatility, they are widely used in the manufacturing of disposable goods, such as paper and cardboard. They provide the perfect blend of high-strength and versatility.

### **Characteristics**

TPU Hot Melt Adhesive is an excellent alternative to acrylic, epoxies, and silicones. These materials are compatible with most natural rubbers. However, their adhesive properties differ. Here are some characteristics of TPU hot melt films. While acrylics are known for their high holding strength, polyurethanes have a lower adhesion strength. A thermosetting adhesive possesses low elongation and high tensile strength.

TPU Hot Melt Adhesive film is thermoplastic double-sided adhesive. Its composition is polyurethane, and it is white and translucent. It has good elasticity and is suitable for bonding different materials. Moreover, TPU hot melt adhesive film is odorless, waterproof, and washable. As a result, it is a good choice for many applications.

TPU Hot Melt Adhesive film is a flexible material with excellent water resistance and strength. It is also a safe, non-toxic material, and recyclable. More apparel and footwear companies are choosing TPU film for its unique properties. It is highly versatile and can keep fabric both waterproof and breathable. The film also fuses well with many materials and provides a clean, professional appearance.

TPU Hot Melt Adhesive film is used for bonding various materials, including fabrics and woven products. These adhesives have good washability, soft hand feel, and low cost. TPU Hot Melt Adhesive film and hot melt adhesive web have similar environmental performance to hot melt film and are RoHS 2.0-compliant. You can find them in a variety of materials, including textiles, apparel, and home textiles.

TPU Hot Melt Adhesive film is available in rolls of 500 feet. The adhesive film does not contain any backer paper, so no liner is necessary. TPU Hot Melt Adhesive Films have virtually no cure time and can be cut or folded almost immediately. Further, they are a highly versatile material that is used for a wide range of applications. Its elasticity, adhesion, and durability are the primary advantages.

TPU Hot Melt Adhesive films are 100% solid and non-toxic. They can bond any two materials. When heated and pressed, THK bonds easily. These adhesives do not require spraying and offer high adhesion and cohesion. They are incredibly flexible and have excellent mechanical and chemical properties. This makes them ideal for applications where adhesion is critical. It also resists high temperature.

### **Application areas**

TPU Hot Melt adhesive film has many applications in the outdoor apparel and sportswear industries. Its smooth appearance and soft wearing feel are widely appreciated. Its elasticity, flexibility, hydrolysis resistance, and light weight make it an ideal material for functional clothing. Its high elasticity and moldability also make it a suitable material for underwear. The application areas of TPU hot melt adhesive film are almost unlimited.

TPU Hot Melt adhesive film is malleable and has a specific temperature range. It is non-toxic and tasteless and is a perfect chemical product for the environment. It offers superior bonding performance and is ideal for use in various products. The applications of TPU Hot Melt adhesive film are numerous and include furniture, packaging, hygiene products, medical applications, and automotive products. Here are some common uses of TPU hot melt adhesive film:

TPU Hot Melt adhesive film has excellent properties in both traditional TPU films and in hot melt adhesive. Its high bonding strength allows it to bond with various materials. This material is gaining much attention in the hot melt adhesive industry and has more application areas than ever before. Its high bonding strength makes it an excellent choice for many applications, including furniture

assembly, automotive assembly, shoemaking, and gas/oil filter bonding.

TPU Hot Melt adhesive film is transparent and white. Its melting point varies from 65 degrees to 180 degrees. It is suitable for a variety of substrates and offers excellent washing resistance and elasticity. Unlike its counterparts, TPU Hot Melt adhesive film has three different melting points, but the 80 degree melting point is the most commonly used. Aside from this, it has excellent tensile strength and is easy to apply.

TPU Hot Melt adhesive film can bond various types of adherends. It has lower melting point and is easier to handle in corners. This makes it an ideal choice for many applications. This product also has the highest adhesion strength of all TPU hot melt adhesive films. It is also widely used in medical and dental applications. It has been approved by the FDA as a food grade material. Once it is applied to your device, you can even sand the edges.

### **Application areas of TPU hot melt adhesive film**

When you talk about hot melt adhesive film, TPU hot melt adhesive film is probably one of the most popular types. The diversity of TPU hot melt adhesive films is greater than any other material. Its high bonding strength and versatility make it suitable for many different types of materials. Moreover, the environmental benefits of this material also make it an excellent choice for many applications. But where exactly can TPU hot melt adhesive film be used?

The main applications of thermoplastic polyurethane (TPU) hot melt adhesive films are textile and flexible materials bonding. They can make the lamination process easier and open up new applications in many industries. As a hot melt adhesive, TPU films are lightweight and can be welded to polycarbonate, Dureflex, and other materials. High-performance thermoplastic films are especially good for bonding textiles.

Another important application of TPU hot melt adhesive film is in the footwear industry. The elasticity of the material, hydrolysis resistance, and color make it ideal for outdoor footwear and clothing. This versatile adhesive film has the potential to be used in many different applications and has become a trend for the future. Despite the many advantages of TPU, it should not be confused with EVA hot melt adhesive film. These two materials are not the same. In general, TPU hot melt adhesive film is considered more environmentally friendly.

Low-temperature TPU hot melt adhesive film is another thermoplastic double-sided adhesive film. Its melting point is lower than 120 degrees Celsius, which makes it more suitable for bonding and laminating various materials. In addition to this, it has passed the RoHS 2.0 test. It is a safe material for all kinds of applications. This material has a wide range of applications and can meet the laminating needs of many industries.