

How do I use hot melt adhesive film?

Detail Introduction :

Hot melt adhesive film is a bonding efficient, environmentally friendly, and clean adhesive product. Many people new to hot melt adhesive film products do not know how to use this plastic-like film and think it is amazing. Hot melt adhesive film is very simple, but it needs to be differentiated according to different applications and process equipment.

Simply put, hot melt film requires high-temperature heating to make the film melt. The molten adhesive becomes a liquid to wet the object's surface to which it is applied while applying a certain amount of pressure. After the film cools and hardens again, the adhesive forms a cohesive force, creating a bonding strength. The film can be bonded to the object. Hot melt adhesive film is mainly divided into large area lamination and small area bonding.



In the case of large-area compounding, the compounding machine is generally used to compound, which is generally used in the compounding process of textiles, garment fabrics, leather products, foam products, and other rolled materials. General compounding plant using a large drum compounding machine, as long as the previous glue groove is replaced with a bearing that can carry hot melt adhesive film adhesive coil machine can be used normally. When using the composite drum temperature adjustment to the hot melt film

temperature, the need to composite the middle of the material sandwiched between a layer of hot melt adhesive film together into the composite drum, three layers of material followed by the drum to turn a circle out of the composite together.

The above categories of materials, if the width of the smaller, also often use hot lining machine to composite.

In addition, we have also encountered no coil products laminated, such as a plate or metal plate laminated. We often use a hot press to laminate. The hot melt adhesive film is laid between the two layers of the material to be bonded, and then together into the hot press laminating, hot pressing for a while and then take out, then wait for the period of cooling. It is worth mentioning that, like this kind of plate bonding, often after hot pressing, the material will produce thermal stress. There will often be a stress shrinkage phenomenon during the cooling process, yes, a certain degree of deformation of the plate. The hot melt adhesive film must wait until the full cooling hardening bond strength to achieve the best, so often in the cooling process will be deformation of the decoupling phenomenon. Therefore, in general, when using hot melt adhesive film to bond such sheets, it is necessary to go through a cold-pressing process, and only after the hot melt adhesive film has cooled completely is the pressure removed. The bonding strength can reach the best.

In addition to the above large area bonding, there are many cases of small area bonding. For example, the hot melt adhesive film used in the production process of seamless garments is often done using a seamless splicing machine. The principle of this machine is high-frequency hot melt technology, which can quickly heat the splicing area to achieve fast bonding between fabric and fabric. In addition, some small area bonding can also be done manually using more primitive methods such as electric irons, flat ironing machines, heat sealers, heat guns, and other equipment.

It is important to note that when using hot melt adhesive film, there are requirements for heating and pressure time and pressure, which are divided according to the material of the hot melt adhesive film to regulate the parameters. Different materials have different physical and chemical indexes and different process parameters for use. When the product is shipped, hot melt film manufacturers often have a parameter label. Operators should operate according to the recommended process on the physical parameter label. However, it is necessary to make specific adjustments to the actual process and equipment to achieve an optimal process.

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