

What is the Best Temperature for Hot Melt Adhesive Film?

Detail Introduction :

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Many people who know hot melt adhesive film know that the hot melt adhesive film needs to be heated to a specific temperature when it is used so that it can melt to bond the two adherend surfaces together. What is this certain temperature as well? Maybe not everyone knows it.

Most people will think that hot melt adhesive film is also a kind of hot melt adhesive. When people use hot melt adhesive products such as hot melt adhesive pellets or hot melt adhesive sticks, they have no concept that hot melt adhesive actually has different materials. They often habitually use a higher temperature, and the temperature is not so accurate. For example, there is often no temperature display on the hot melt glue stick, and the heating tool of the hot melt glue stick.

However, unlike traditional hot melt adhesive products, the thickness of the hot melt adhesive film is very thin, usually between 0.02mm-0.1mm. With such a thin film of thickness, the temperature conduction is very fast inside it, so it has higher requirements on the accuracy of temperature control than other hot melt adhesive products. Similar hot melt adhesive mesh also has this feature.

Due to the thin thickness of the hot-melt adhesive film and the higher or lower temperature, it will directly affect the melting speed of the hot-melt adhesive film, which in turn affects the fluidity of the hot-melt adhesive film and the degree of wetting on the surface of the material. The bonding effect and bonding strength of the film will be affected to a certain extent.

In addition, we want to mention that the composition of hot-melt adhesive films varies greatly according to the formulation of various types of products, so the melting range of their materials is also very different. Even hot melt adhesive films of the same material have different formulations, let alone hot melt adhesive film products with different material categories.

Due to the different materials of different varieties, the actual use temperature of the hot melt adhesive is also different. But it can be roughly divided into three categories: low-temperature [hot melt adhesive (<https://sinohotmelt.com/>)], medium temperature hot melt adhesive film, and high-temperature hot melt adhesive film. Low-temperature hot melt adhesive film generally refers to a hot melt adhesive film with a use temperature of 80°C-120°C. The medium temperature hot melt adhesive film generally refers to the hot melt adhesive film of 120 -160 °C. High-temperature hot melt adhesive film generally refers to hot melt adhesive film with a use temperature above 160°C.

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Therefore, there is no exact optimal value for the use temperature of the hot melt adhesive film, but recommended according to the actual composition ratio of the hot melt adhesive film. And in most cases, if it is a new process, a specific adjustment needs to be made according to the environment and equipment conditions of the use site, which is one reason why the use of hot melt adhesive film requires technical support.

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