## What Direction Will Hot Melt Adhesive Develop in t Future

## Detail Introduction :

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Hot melt adhesive generally uses hot melt adhesive gluing equipment to melt hot melt adhesive part liquid and then deliver it to the surface of the adherend by spraying or coating. The bonding can be completed after the hot melt adhesive has cooled down.

Hot melt adhesive has many advantages, and high efficiency is the most prominent. The whole bondi process of hot melt adhesive can be completed in 1-3 seconds. Hot melt adhesive has a good bondin and high bonding strength. It can also enhance the strength of some materials whose strength is not high. The use of hot melt adhesive does not generate waste and meets environmental protection requirements.

Hot melt adhesive is a solvent-free, water-free, 100% solid-soluble polymer product. It is a solid at roo temperature, heated and melted to a certain extent, and becomes a flowable and viscous liquid adhe which is light brown translucent or white after melting.

In the future, under the trend of globalization of the hot melt adhesive industry, the demand will be r diversified, and the gradually large-scale hot melt adhesive enterprises will have enough strength to o basic research so as to gain advantages in the market with serious product homogeneity. Therefore, development of technology is almost inevitable.

1. High strength hot melt adhesive

Adhesive strength is the core performance of adhesives. Hot melt adhesives must be used on some of with extremely high strength requirements, especially those under large structural stress, and the ad strength must be improved.

Strong polarity and good wettability are the characteristics of adhesives to achieve high bond strengt melt adhesives have no solvent, and fluidity and wettability are the shortcomings. Improving the bon strength of hot melt adhesives is mainly from hot melt adhesives of polarity and wettability.

2. High-speed hot melt adhesive

The high efficiency of hot melt adhesives is recognized because as long as the hot melt is cooled, it hat forming a bond. The bonding speed of cigarette holder sticks can reach 20,000 pieces/min, bookbind reach 18,000 pieces/hour, and diaper production can reach 1,000 pieces/min.

In the future, it is possible to further improve the application speed of hot melt adhesives and expanadvantage, mainly from the aspects of accelerating the hardening speed, increasing the thermal visco reducing the specific heat of the material, and optimizing the equipment.

3. Low-temperature hot melt adhesive

Sizing temperature is one of the top concerns for materials engineers. Low sizing temperature can no reduce material damage, extend equipment life, save energy but also reduce the public welfare effec carbon emissions. Therefore, low-temperature hot melt adhesives are definitely a promising research direction.

4. Low-density hot melt adhesive

In many cases, reducing material density to achieve lightweight has many advantages, such as reduci energy consumption and saving resources. The bond strength of the adhesive actually depends on th area, not the weight of the adhesive itself, so low-density hot melt adhesives become a reliable resea direction.

Low density can be achieved not only by increasing the density of the material (such as using polyole feedstocks) but also by manufacturing processes, such as foamed hot melt adhesives.

5. In the context of people's increasing concern about health, especially in industries such as automo hygiene materials, food, toys, furniture, etc., odourless hot melt adhesives are the best products to reanxiety of end consumers.

Odourless should be achieved by improving raw materials, minimizing small molecules, and using low or even odourless raw materials, such as hydrogenated rosin esters.

6. Materialized hot melt adhesive

Using a special moulding process, the hot melt adhesive is made into a film, mesh, strip, and linear m which will become the development trend of hot melt adhesive. Today, the market of hot melt adhes hot melt adhesive mesh film, hot melt adhesive tape and hot melt adhesive line is developing rapidly combination of this hot melt adhesive material and other materials is more conducive to downstrean enterprises to achieve large-scale production and cleaning production.

7. Degradable hot melt adhesive

Environmental protection is a major trend, and environmental protection is also a relative concept. A hot-melt adhesives belong to environmental protection adhesives, they are limited to environmental protection that is harmless to the human body, not environmental protection in terms of recycling or degradability. In the future, if hot melt adhesive products that are easy to recycle or degrade naturall developed, there will be good development prospects.

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