Why is Hot Melt Adhesive Used in the Automotive Industry

Detail Introduction :

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The reason why hot melt adhesives can be used in the automotive industry is determined by the characteristics of hot melt adhesives:

Fast curing speed, suitable for high-speed automated assembly line production; suitable for bonding various materials, a large number of plastics such as ABS, PE, PP, etc., are used in automobiles, as we metal aluminum, steel, etc. These components can be used for hot melt adhesives. The hot melt adh a solids content of 100%, does not contain solvents, is easy to store, is environmentally friendly and r will not cause secondary pollution to the environment, and will not harm workers' health;

Types of Hot Melt Adhesives for Vehicles:

According to different materials, hot melt adhesives for vehicles include EVA, rubber, APAO, PUR, PA, Different types of hot melt adhesives will be selected for different parts and uses.

Hot melt adhesives for vehicles can be divided into two categories according to their functions: bondi sealing. The sealing type mainly uses butyl rubber.

Hot melt adhesives for vehicles can be divided into ordinary type and heat-resistant type according to application and application temperature. Cars are mainly driven outdoors, and hot melt adhesives ar required to have a certain degree of heat resistance.

Application of hot melt adhesive for automobiles:

Cars are composed of thousands of parts, among which there are many parts that use hot-melt adhe Here are a few parts that are used more and are common:

1. Traditional headlights use rubber sealing strips with holes, which are pressed and sealed by screws switching to hot melt adhesive, it can not only make bond quickly but also play a sealing role, which r reduces costs but also facilitates automated production. . There are mainly three types of adhesives: type, APAO adhesive and PUR adhesive, which require good temperature resistance, high strength ar resistance.

2. In the past, instrument panels, ventilation ducts, built-in buckles, etc., were all fixed and connected mechanically in the past, which was not only time-consuming and labour-intensive but also inefficien poor in sealing performance. After using hot melt adhesive, production efficiency and product quality

greatly improved. These parts generally use temperature-resistant hot melt adhesive, and the base m
mainly EVA and polyolefin.
3. The roof is a composite of plastic sheets, mainly using PE or EVA hot melt adhesive film or rubber p
4. The door panel assembly needs to be bonded with hot melt adhesive, which involves the bonding
polypropylene parts, and the fixing of audio and wiring harnesses. APAO and temperature-resistant h
adhesives are mainly used.
5. Insulation pads for car carpets and floors, inner buckles of trunks, etc. These are the most commo
hot melt adhesives on cars. The types of hot melt adhesives are block, pellet and stick. Mainly include
pressure-sensitive adhesives, EVA particles, adhesive strips and APAO. It needs to be open for a long
easy to assemble and fit large parts, has high-temperature resistance and low odour.
6. Fix the wiring harness of the car. There are a lot of wires inside the car. So many wiring harnesses
fixed with wire tubes like home decoration. Fixing with hot melt glue is a time-saving and effective me
and hot melt glue has certain advantages. Its elasticity will not fall off during driving, and it is easy to
when maintenance is required. Adhesive strips and APAO type hot melt adhesives are mainly used he
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