

Is there a future for solvent-based adhesives

Detail Introduction :

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Solvent Based Adhesive refers to an adhesive made of natural rubber, synthetic rubber, synthetic resin, and other macromolecular compounds dissolved in an organic solvent and adding an appropriate amount of curing modifier. The volatilization cures it of the solvent.

The solvents used in solvent-based adhesives mainly include aliphatic hydrocarbons, esters, alcohols, chlorinated hydrocarbons, ethers, sulfones, acetals, aliphatic alkanes, and amides. Benzene, toluene, ethyl acetate, acetone, methyl ethyl ketone, dichloromethane, chloroform, dichloroethylene, carbon tetrachloride, n-hexane, solvent gasoline, etc. are the most commonly used. In practical application, a mixed solvent system is often adopted, and the mixed-use of several solvents can show a synergistic effect, and the effect is outstanding.

Due to the existence of a large number of harmful solvents and the safety and pollution caused by high-boiling organic solvents, solvent-based adhesives are increasingly restricted by national environmental protection laws and regulations. In this regard, my country has promulgated GB 18583-2008 "Limits of Hazardous Substances in Adhesives for Interior Decoration Materials" in September 2008. Solvent-based adhesives are facing market risks. What is the future prospect of this kind of product with early development, huge dosage, excellent performance, and wide application? Water-based and thermal melting is definitely the direction of development. However, compared with water-based adhesives and hot melt adhesives, solvent-based adhesives have the advantages of high initial tack and good water resistance.

Solvent-based adhesives may not be eliminated for a long time and may develop. The key is to follow the market trend, seek new changes, pay attention to environmental protection, highlight green, and innovate with high quality. According to the specific situation of our country, solvent-based adhesives will still occupy an important position for a considerable period of time. If solvent-based adhesives can continue to develop, they must focus on developing new types of adhesives that are environmentally friendly, high-performance, low-volatile solids, and energy-saving. Kind. Therefore, it is very necessary to explore low-toxic solvent-based adhesives that meet the national environmental protection standards. For example, "exempt solvents" that do not participate in atmospheric photochemical reactions and are less toxic, such as acetone, dimethyl carbonate, methyl acetate, etc., are used as solvents to produce adhesives, etc.

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