## Whether the Hot Melt Adhesive Film Can Stick or N Related to the Surface Free Energy of the Material

## Detail Introduction :

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As we mentioned earlier, the damage form of the adhesive layer is closely related to the bond streng hot melt adhesive film. Many factors affect the bonding strength of hot melt adhesive films, but there factor that researchers generally pay more attention to. As long as they study bonding, they will pay a to this factor: the surface free energy of the material.

Surface-free energy is the embodiment of the intermolecular force on the surface of an object and is related to the wetting performance of the solid surface. The wetting performance is a factor that dire affects the bonding quality of the adhesive. It can be said that the easier the glue is wetted on the sur the material, the easier it is to integrate with the material, and the better the glue will bond to the mat Of course, extremes must be reversed, and wetting too well is not enough, because the glue may per into the material before curing, which will cause glue shortage and poor adhesion, so the wetting characteristics need to be kept in a relatively within a good range.

How is the surface free energy of material generally measured? Generally, it is calculated by measurin contact angle of the material to a specific liquid and then using the formula. The specific liquid is gene selected from water, glycerin, and the like.

The contact angle is measured by dropping a droplet on a flat, level solid surface placed horizontally droplet reaches a stable form. The intersection point of the solid, liquid, and gas phases is the tanger liquid-gas interface, and the angle between the tangent and the solid-liquid interface is the contact and Through the measurement of the contact angle, people can determine the size of the surface free en the material so as to understand the wettability of the material to a certain liquid. This is why two liquid diametrically opposite properties, glycerol and water, are generally used to measure contact angles. Related articles:

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