Large area lamination with hot melt adhesive film req attention

Detail Introduction :

Hot melt film has been widely used in various industries today, but it is mostly used in large area laminatio applications, soften fabrics, rolls, plates, etc. These occasions are particularly high demand for hot melt fil often has a certain wide demand.

When laminating a large area, the operation of hot melt film composites requires attention to some basic m ensure the completion of quality and quantity of composite, so which specific items?

First, the most important thing is the laminating temperature, that is, the temperature provided by the mach heat the hot melt film to make it dissolve. This temperature can not be too low and not too high. Too low a temperature will lead to the film not being fully melted. Too high will lead to permeable glue and other prob worth noting that many laminating hot melt film machines and equipment show the temperature, and the s lamination temperature is inconsistent. So it is recommended that you use a temperature gun to measure contact surface temperature to determine the exact value of the temperature to regulate.

Second, the process of hot melt film lamination also needs to pay attention to the maintenance of the lami time, on the one hand, the heating time, and the cooling time. We need enough time to melt the hot melt fi the heating process and enough time for the hot melt film to flow and penetrate the surface of the bonded to produce a good bond. Of course, time is not the length. The better too long will also lead to composite p after the permeable glue and other phenomena. After compounding, we need to have enough time to mak melt adhesive film cool. After waiting for cooling, hot melt adhesive film can play a role in bonding.

Third, the hot melt film lamination process requires a certain amount of pressure, often overlooked. The pr needs to be controlled within a certain range. Too much pressure will lead to the hot melt film from the adh layer being extruded. Too little pressure has not played a good role in the composite. In addition, because materials (such as metal, wood, etc.) have their thermal stress, lamination and then cooling will produce deformation. And the hot melt adhesive film can not form a good bond before complete cooling. So this kin material also needs to involve a cold-pressing step.

The above three points, temperature, time, and pressure, are the three necessary elements of hot melt film composites and are indispensable process parameters that must be regulated. I hope you have a deeper understanding of the hot melt film lamination process through the above elaboration.

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