

Can hot melt adhesive film be used to bond aluminum honeycomb panels?

Detail Introduction :

An aluminum honeycomb panel is a kind of construction material with excellent performance. It is lightweight, high in strength, and has good sound insulation and noise reduction function, so it is the preferred material for some special occasions for building decoration. So, what kind of adhesive is used to solve the bonding of aluminum honeycomb panels? If the use of hot melt adhesive film can solve the bonding of aluminum honeycomb panels?

More traditionally, the bonding of aluminum honeycomb panels uses polyurethane-type adhesive products. Polyurethane adhesives are well known and widely used for their high strength bonding to metals. No decorative building materials on the nail-free adhesive is a polyurethane adhesive. It can be said that polyurethane adhesive is a kind of aluminum honeycomb board adhesive with very good performance.



However, what is the problem with polyurethane adhesive? The biggest problem of polyurethane adhesive is the slow curing speed, usually needing room temperature curing 24 hours to form a reliable bond strength. Such a curing speed greatly reduces the production efficiency of aluminum honeycomb panels. The use

melt adhesive film instead of polyurethane adhesive to bond aluminum honeycomb panels can greatly enhance the production efficiency of aluminum honeycomb panels.

As an environmentally friendly adhesive product, hot melt film melts into a liquid under heating, infiltrates the object's surface to be bonded, and then cools and hardens to produce adhesive strength. Hot melt adhesive film can form a reliable bond as long as it is completely cooled, and with cold pressing technology, it can be cooled quickly. By using hot melt adhesive film to bond aluminum honeycomb panels, the production time for one panel is reduced from 1-2 days to 1-2 minutes, which greatly improves the production efficiency of aluminum honeycomb panels.

The hot melt adhesive film commonly used in aluminum honeycomb panel production is PO-type hot melt adhesive film. PO type aluminum honeycomb panel special adhesive film has strong adhesion to metal and aluminum, and the bonding strength is very high. In addition, because the bonding is honeycomb-shaped aluminum, the actual bonding contact area is relatively small. This requires good shrinkage resistance. PO-type hot melt adhesive film, forming a better package to the aluminum itself, thus forming a stable bond.

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