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Info

## Adhesive Resin

For Aluminum Plastic Composite Panel

Safely Operation for  
more than 140,000 hours



## Global Functional Polymer Materials Manufacturer

Banzan International Group is focused on the functional adhesive resin of composite structure product. Banzan has three wholly invested subsidiaries and one holding subsidiary, and two R&D centers in Shanghai, China and Boston, USA.

We focus on providing the entire solutions from entire pipeline production to key materials, connection, installation, aging testing, intellectual operation, standards, technical specification other than import such technology in order to maximize clients economic efficiency.



# Adhesive Resin For Aluminum Plastic Composite Panel (ACP)

Growing lifestyles and plastic consumption require a wider variety of composite materials.

Aluminum-plastic composite panel (hereinafter referred to as: ACP), since its development in the 1960s, has been widely used in the construction industry, and has increasingly become the main force of building curtain wall decoration.

Banzan adhesive resin is one of the most important raw materials in ACP. Since the aluminum and plastic are not sticky, the role of adhesive resin is to join the aluminum and polyethylene core layer. Therefore, the bonding performance of the adhesive resin is closely related to the quality of ACP. The quality difference of the product on the market largely concerns with adhesive strength mostly.

Banzan is a professional supplier of adhesive resin, of which the production technology of special adhesive resin for ACP is quite mature. The adhesive with high bonding strength and stable performance is specially designed for ACP, which is prepared firstly by the way of flowing or blowing, then placed in between aluminum and substrate, finally bonded together tightly through the process of composite technique.

PE  
Resin  
Metal Steel  
Resin  
PE

## Performance Properties of Adhesive

Product Name : Adhesive Resin

Test Items	Test Method	Units	Typical Value
Vicat Softning Point	ASTM D1525	°C	67
Melt Point	ASTM D2117	°C	105
Melt Index	ASTM D1238	g/10min	2.5
Tensile Strength	ASTM D638	Mpa	10.8
Elongation at Break	ASTM D638	%	580
Density	ASTM D1505	g/cm <sup>3</sup>	0.93

These technical data only reference and not intended as specification!

## Properties

- Strong adhesive strength with galvanized steel strip.
- Advanced compatibility between HDPE.
- Great Long-term stability.
- Outstanding processability, especially used in coating process of galvanized steel strip.
- Advanced soak resistance performance.



## Investing in U.S Adhesive Technology

Banzan invested more than 6 million USD as the first-stage fund to set up a world-class R&D center at Boston, USA. The center which is equipped with most advanced equipment, such as Haake torque rheometer, scanning electron microscope and ICP spectrometer.



## Our Achievement Makes Us More Competitive

Banzan has declared more than 100 + invention patents, more than 30 have been authorized; Participated in the formulation of 5 national standards, 4 industrial standards and 1 local standard



Banzan Cooperations  
Getting Better,  
Together.

