

## SQ-730003 UV Adhesive for PET

### Description

**SQ-730003** single-component UV adhesive is mainly used for bonding difficult-to-adhere materials such as PET and PP. The product has the characteristics of low viscosity, strong adhesion, high transparency and good weather resistance. It can be used for bonding and sealing electronic components, toys, handicrafts, gifts, mobile phone sheaths, furniture and other materials.

### Technical data

Test items	Test Data
Appearance	Transparent liquid
Viscosity (25°C, CPS)	600-850
UV component (%)	100
Density (g/cm <sup>3</sup> , 25°C)	1.03±0.05
Hardness (Shore D)	40±5
Coating thickness (μm)	10-200
Boiling performance (surface spray paint, no primer 100°C/60min)	Adhesion 5B, no change in coating
Curing energy (mercury lamp, mj/cm <sup>2</sup> )	600-1,000
Tensile strength (MPa)	20±2
Elongation at break (%)	240±20
Transmittance(%)	≥94

Note: The above performance parameters can be customized according to customer requirements

### Performance

Good adhesion to PET, PP, etc. and high bonding strength;

Fast curing speed, positioning in 1 second, complete curing in 10-20 seconds;

Good resistance to yellowing and good transparency;

Low volume shrinkage;

It has good resistance to high and low temperatures, high humidity, moisture resistance, and UV resistance. The product performance remains stable in harsh environments.

### Applications

Bonding and sealing of materials in electronic components of mobile phones, laptops, home appliances and other products, toys, handicrafts, gifts, mobile phone sheaths and other fields.

It also has excellent bonding strength for bonding between metal, glass, fiber products and hard plastics. Suitable for electronic products that require bonding and fixation.

## Construction technology

1. One of the two substrates to be bonded is transparent and the surface is clean, dry and free of grease.
2. Apply UV glue on the surface of one of the substrates, close the two substrates, and compact them with corresponding tools to make the two better overlapped without bubbles. The glue can be applied manually or with an automatic glue dispensing machine.
3. Irradiate with ultraviolet light with a wavelength of 265 or 395 nanometers. When lighting, illuminate from the center to the periphery, and confirm that the light can indeed penetrate to the bonded part. It is recommended to illuminate for about 6 seconds. During initial positioning, remove the remaining glue on the workpiece and then illuminate it again until it is completely cured; the curing time should vary according to different materials, glue thickness, and UV intensity. It is recommended that users purchase a UV intensity tester and perform light intensity testing before bonding to reduce the scrap rate.
4. Temperature also has a slight impact on the activity of glue. When the temperature is low, the curing time should be appropriately extended; the materials to be bonded should not be squeezed or repeatedly rubbed during operation. It is recommended to use fixed tools.

## Construction process

Glue on the cleaned material → Mold rolling → UV curing → Setting the shape, removing residual glue → UV curing to improve performance

## Precautions

1. Ensure that the UV adhesive layer absorbs sufficient UV energy to achieve the best curing effect, otherwise it will easily affect the performance of the adhesive layer.
2. Remaining glue cannot be returned to the original packaging. It should be sealed away from light and stored at room temperature.

## Storage

To prevent the product from polymerization and gelling, please keep it sealed and away from heat and light. Recommended storage temperature is not higher than 30°C. Unused products must be sealed and stored in a timely manner and cannot be stored in the open. Safe storage time is 6 months at room temperature( 25°C) and under ventilation. 1KG/5KG/25KG/barrel

**Tips: SQ-730003 UV adhesive for PET is specially used for bonding PET/PP. It has fast curing speed, positioning in 1 second, strong adhesion, high transparency and good weather resistance.**

Note: Technical data represents typical values only. In view of the differences in formulas, production process, conditions, all the above statements must be adjusted according to the actual situation, our company does not make any promises. Our company reserves the right to reform its products without prior notice of any changes.