

## SQ-730001 UV Adhesive for Plastics

### Description

**SQ-730001** single-component UV adhesive is mainly used for bonding TPU, PMMA, PC, PVC, ABS, PS and other common plastics. The tool has very strong adhesion to TPU film, reaching the destruction strength of the base material. The glue has the characteristics of low viscosity, strong adhesion, high transparency and good weather resistance. It can be used for bonding and sealing materials in electronic components, toys, handicrafts, gifts, mobile phone sheaths and other fields.

### Technical Data

Test Items	Test Data
Appearance	Transparent liquid
Viscosity (25°C, CPS)	600 - 850
UV Content (%)	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

### Product Features

It has good adhesion and strong fastness to TPU, PMMA, PC, PVC, ABS, PS and other plastics, especially to TPU;

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

Good resistance to yellowing and good transparency;

Low volume shrinkage and good elasticity;

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

Adhesion and sealing of materials in electronic components, toys, handicrafts, gifts, smartphone cases, and other related products such as mobile phones, laptops, and home appliances. Exhibits excellent bonding strength for metals, glass, fiber products, and rigid plastics. Suitable for any electronic or other products requiring secure adhesion and fixation.

## Construction Process

1. Ensure that at least one of the two substrates to be bonded is transparent, clean, dry, and free of grease.
2. Apply the UV adhesive to the surface of one substrate. Align and press the two substrates together using appropriate tools to ensure good contact and bubble-free bonding. Application can be done manually or with an automated dispensing machine.
3. Expose the assembly to a UV lamp with a wavelength of 265 nm or 395 nm. Illuminate from the center toward the edges, ensuring that the UV light fully penetrates the bonding area. Recommended initial exposure time is approximately 6 seconds. After preliminary positioning, remove any excess adhesive on the substrates and re-illuminate until fully cured. The curing time may vary depending on the substrates, adhesive thickness, and UV intensity. It is recommended to use a UV intensity meter to verify light strength prior to bonding to minimize waste.
4. Ambient temperature can slightly affect adhesive reactivity. In lower temperatures, curing time should be appropriately extended. Avoid applying excessive pressure or repeated friction on the substrates during operation, and it is recommended to use fixtures for proper alignment.

## Process Flow

Apply adhesive onto the cleaned substrate → Mold rolling → UV curing → Setting the shape, removing residual glue → UV curing to improve performance

## Precautions

1. Ensure that the UV adhesive layer receives sufficient UV energy to achieve complete curing; inadequate irradiation may compromise the coating performance.
2. Do not pour leftover adhesive back into the original container. Store the remaining material in a sealed, light-proof condition at room temperature.

## Storage Conditions

To prevent premature polymerization due to the high reactivity of this product, keep it tightly sealed and store away from heat sources and direct sunlight. It is recommended to maintain storage temperature below 30 °C. Unused product should be promptly resealed and must not be left open. Under ventilated conditions at 25 °C, the product has a safe storage period of 6 months. Available packaging: 1 kg / 5kg / 25 kg per drum

**Tips: SQ-730001 Specifically designed for bonding various plastics. Features fast curing with 1-second initial set, strong adhesion, high transparency, and excellent 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.