



Adhesive

PU1200

GBA

polyurethane hot melt adhesive

Descriptions

PU1200 is a 100% solids, moisture-reactive polyurethane hot melt adhesive designed for both self-adhesion and mutual bonding of materials such as PC, ABS, PVC, aluminum, stainless steel, and glazed glass. Once applied and cooled, it delivers sufficient initial strength to support subsequent processing steps. After full curing, the adhesive offers outstanding resistance to heat, water, and chemicals, making it particularly well-suited for bonding plastics in electronic applications.

Product Highlights

- Moisture reactive type
- Suitable for bonding between different materials
- Moisture reactive type
- After curing, it has excellent heat resistance, water resistance, and chemical resistance
- Widely used in the electronics industry

SPECIFICATIONS TABLE

Basic characteristics	Unit	component
appearance	–	black solid
density	g/cm ³	1.1±0.05
solid content	%	100
Melting viscosity @ 100 ° C	cps	5000±2000
Opening hours @ 25 ° C	min	2~6

Packaging Options

- 30ml plastic tube
- 300ml cartridge
- 25kg drum

Shelf Life & Storage

- Recommended storage temperature: 10–25°C, in a cool, dry environment
- Shelf life: 6 months when stored in original, unopened packaging

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Important Information

Safety Precautions

Before using this product, please read the safety manual carefully to understand the necessary precautions and safety guidelines. Even for chemicals not requiring hazard labeling, it is essential to assess risks beforehand and implement appropriate safety measures.

Product Application

This adhesive is primarily designed for bonding various plastics and metals in the electronics industry. Since material surface properties can vary significantly, it is strongly recommended to conduct preliminary tests before actual use.

Product Usage Instructions

- Ensure the workspace is well-ventilated. The recommended application temperature ranges between **100–130°C**.
- **PU1200** is a moisture-curing polyurethane hot melt adhesive. It must be applied using equipment specifically designed for reactive hot melt adhesives. Using standard hot melt machines may result in moisture ingress due to inadequate sealing, leading to premature curing, equipment damage, or poor performance.
- Assemble components **immediately after glue application** to ensure effective wetting and optimal bonding performance.
- For complete curing, allow the bonded product to rest in a controlled environment with a recommended temperature of **23–25°C** and **approximately 65% relative humidity**.
- Ensure the adhesive has fully cured before conducting any follow-up testing on the assembled electronic components.
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Cleaning Instructions

- For **uncured adhesive**, clean the application equipment with a specialized cleaning agent and rinse thoroughly.
- **Cured adhesive** is difficult to remove and may require prolonged soaking in **NMP (N-Methyl-2-pyrrolidone)** solvent for effective removal.

Safety Notes & Handling Precautions

- This product is a reactive polyurethane adhesive. It is not recommended for personnel with known sensitivities or allergies to polyurethane compounds.
- Due to high-temperature application, always wear suitable **protective clothing**, including **gloves**, **safety goggles**, and other personal protective equipment (PPE).
- The product is ready-to-use; avoid prolonged exposure to air to prevent premature curing.
- Follow **first-in, first-out (FIFO)** practices for inventory usage.
- Cleaning agents are single-use only and must **not** be mixed back into the adhesive.
- **No eating, drinking, or smoking** is permitted in the work area.