

TJ 2210 Acrylic Resin



一、Introduction

Acrylic resin agent is a resin glue composed of powder and liquid, that is, composed of acrylic powder and liquid curing agent. The acrylic powder is white powder, the curing agent is colorless to light green transparent liquid. After mixing the curing agent and acrylic powder for 10-15 minutes at room temperature (20-25°C), it can be cured into a transparent or translucent hard material, and the material can be ground and polished. It has the advantages of low heat release, small thermal shrinkage, good weather fastness and good wear resistance. It is suitable for permanent specimens and micro slicing mounting material for circuit board and metalworking industry.

二、Features

- 1、 Fast curing, stable, high transparency;
- 2. Low viscosity, excellent flow properties;
- 3. Excellent permeability to small pores and depressions;
- 4. Good support for the slices after curing;
- 5、Sufficient hardness and toughness after curing;
- 6. Suit with all currently known soft or hard plastic molds;
- 7、Low exotherm, peak temperature <60°C (12g, room temperature 20-22°C).

三、Safety measures

1. Avoid contact with resins, curing agents and mixed acrylic resins. Wear protective gloves when handling acrylic resin. If you have resin, hardener, or mixed acrylic resin on your skin, remove it as soon as possible. After

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using acrylic resin, wash thoroughly with soap and warm water. If you spill the acrylic resin mixture on your clothing, replace it right away.

- 2. Protect eyes from resins, hardeners and mixed acrylic resins.
- 3. Resin may generate vapors after mixing, avoid inhalation. Curing experiments should be performed in a well-ventilated environment (e.g., fume hood).
- 4. Avoid eating acrylic resin by mistake. Wash hands thoroughly after using acrylic, especially before eating or smoking.
- 5. Acrylic powder is a flammable substance, and curing agent is a flammable substance. Neither of them should be placed near fire sources, steam, direct sunlight, or mixed with other organic solvents;
 - 6. Acrylic powder and hardener must be stored separately to avoid chemical reactions.

Warning!



四、Mixing ratio and performance

It is important to use the correct and accurate mixing ratio, therefore it is recommended to use the weight method of measurement. The mixing ratio of different products is shown in the table below. To obtain a faster curing speed, the modulation ratio should be controlled at 10:6~10:8. In order to obtain better filling performance and flowability, the ratio of curing agent can be appropriately increased to more than 10:8, but the curing time will be extended accordingly.

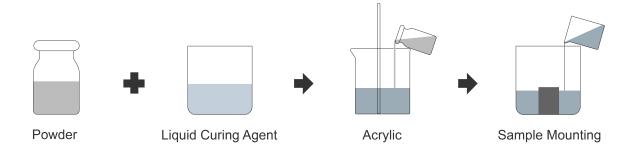
Mixing ratio (by weight)	10:8 (resin powder:hardener) *
Curing time (25 $^{\circ}\mathrm{C}$)	8-12minutes*
peak temperature	75℃*
Hardness	80Shore D
chemical properties	Insoluble in water (after curing)
Solubility after curing	Soluble in Trojan special epoxy resin dissolving agent
contractility	≤0.8%
edge protection	Good
Transmittance	≥93%

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五、Operation method



Preparation In order to improve the adhesion of the mounting material and prevent the foreign matter in the material from seeping out, it is necessary to use alcohol or isopropyl alcohol for ultrasonic cleaning, and then use a dryer or blower to remove the liquid on the surface of the sample.

Mix First weigh the required weight of mounting agent with an electronic scale, and then pour the required proportional weight of acrylic resin powder into the plastic cup. (Do not use wax-lined cups or paper cups). Stir slowly (so that no air bubbles would form) and thoroughly, until the mixture is a smooth paste. The acrylic resin spilled on the table and the acrylic resin left in the cup can be washed off with ethanol.

If there is no weighing equipment, first pour an appropriate amount of mounting agent into a disposable plastic cup, and then add the acrylic powder in small batches. Stir with a stirring rod while adding the powder, pay attention to stirring slowly to prevent air bubbles.

Pouring Slowly pour the mixture into the mold without trapping air around the sample. A stir bar can be used to drain the mixture directly onto the sample.

Mounting Generally, it can be mounted by standing in the air. The mounting time is different at different room temperature. Generally speaking, the higher the temperature, the faster the mounting time. Therefore, the mounting time is different in different seasons. The mounting speed is faster in summer.

The mixture of acrylic resin of this product has good fluidity and low surface tension, which can fill small pores and cracks in some porous samples by itself. Used in conjunction with a pressure cooker (0.3~0.5MPa), it can fill the voids in the sample to a greater extent and reduce the air bubbles inside the sample after mounting, it can also improve the hardness and transparency of the sample.

Sample coverage Covering the mold with a piece of paper/plastic or a mixing cup will prevent moisture ingestion and will prevent the top of the sample from becoming sticky.

Release Acrylic resin generally has good mold release properties, and it can be easily released with force.



六、Package

Powder: 1.0KG/barrel, 2.5KG/barrel

Liquid: 0.8 L/barrel, 2.0 L/barrel

七、Shelf life and storage

Acrylic resin powder: 12 months

Acrylic hardener: 12 months

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