TJ 2211 Acrylic resin cold mounting materials

Introduction

Acrylic resin agent is a resin glue composed of powder and liquid, that is, composed of acrylic powder and liquid mounting agent. The acrylic powder is white powder, the mounting agent is colorless to light green transparent liquid. After mixing the mounting 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.



Application Range

It is widely used in the sample production of PCB, STM, semiconductor and other component. It is also suitable for permanent specimens and micro slicing mounting material for circuit board and metalworking industry.

Features

*Fast mounting, stable, high transparency, no bubbles;

*Low viscosity, excellent flow properties, good permeability;

*Good support for the slices after mounting;

*Sufficient hardness and toughness after mounting;

*Sufficient brightness after polishing

*Low shrinkage before and after mounting

*Suit with all currently known soft or hard plastic molds;

*Low exotherm, peak temperature <60°C (12g, room temperature 20-22°C).

Appearance

Acrylic Powder: White powder.

Mounting Agent: Colorless to pale green transparent liquid.

Instructions

Mix the acrylic powder and the mounting agent in a weight ratio of about 1:0.6-1.0, stir slowly (to avoid the generation of artificial bubbles), and then inject into the mold, and wait for it to fully solidify. The mounting time is about 10 to 15 minutes.

Notice:

1）Operating temperature (℃): 20℃--25℃

2）It works better with pressure mounting machine.

3）Suggested component ratio (weight ratio) acrylic powder: mounting agent = 1: 0.75;

If you want to get faster mounting speed, the modulation ratio should be controlled at 0.6-0.7. If you want to obtain better filling performance and fluidity, you can appropriately increase the ratio of mounting agent to more than 0.8, but the mounting time will be extended accordingly.

Technical indicators

Project	数据
Shrinkage	≤2%
Transmittance	≥93%
Shore hardness (LX-D)	≥80
Impact strength (kg.cm/cm2)	≥8
Peak temperature（℃）	<73
Abrasion resistance	优

Packaging

Powder	1.0KG/barrel	2.5KG/barrel
Liquid	0.8 L/barrel	2.0 L/barrel

Shelf life

Acrylic resin powder: 12 months

Acrylic hardener: 12 months

Safety Precautions

1. Wear rubber disposable gloves and masks before operation
2. Do not inhale too much steam, must operate in a well-ventilated room; do not encounter open flames during operation.
3. Both should be stored in a cool, dry and ventilated place. Sun exposure, fire and other organic solvents are strictly prohibited.
4. Acrylic powder and hardener must be stored separately to avoid chemical reaction.
5. Use after expiration is strictly prohibited to prevent damage to the sample.

Troubleshooting

1） Air bubbles on the side of the sample

Reason： Insufficient degreasing of the sample

Solution： Cleaning and degreasing specimens before mounting

Reason： Surface Tension

Solution： Move the specimen after pouring the resin (if possible)

Reason： The mixture is stirred too vigorously

Solution： Do not introduce air during stirring

2） Greasy surface

Reason： Insufficient mixing of powders and liquids

Solution： Mix well for at least 30 seconds

Reason： Too much liquid relative to powder

Solution： Mix liquids and powders in the correct ratio

3） Too many bubbles

Reason： The mixture is stirred too vigorously

Solution： Do not introduce air during stirring

4） No adhesion between resin and sample

Reason： Insufficient degreasing of the sample

Solution： Cleaning and degreasing specimens before mounting

5） The surface of the mount is rubbery after cooling

Reason： Too much liquid relative to powder

Solution： Mix liquids and powders in the correct ratio