

Shenzhen Jianghe New Materials Technology Co.,Ltd

Technical Data Sheet (TDS)

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YG102AB

Product Description

YG102AB is a two-component epoxy potting resin. It is colorless, transparent, and features moderate viscosity and excellent natural air-release properties. It can be cured at room temperature or with heat. Once cured, it offers good flexibility, a smooth and glossy surface, high transparency, and an aesthetically pleasing finish.

Application Areas

Primarily used for transparent potting of jewelry, "fake water" applications, decorative ornaments, artificial floral arrangements, decorative products, and transparent encapsulation.

Product Features

Colorless and transparent with high clarity; moderate viscosity for smooth, easy application; excellent natural air-release properties (minimizing bubbles and pinholes); good flexibility and toughness after curing; superior surface finish that is smooth, flat, and free of ripples.

Technical Specifications

Property	Part A: YG102A	Part B: YG102B
Color	Light Blue Transparent	Light Blue Transparent
Density (g/cm ³)	1.07±0.05	0.95±0.03
Viscosity (mPa•s)	1000±300	100±30
Brookfield DV2TRV Viscometer	25°C	
Mix Ratio (by Weight)	1 : 1	
Mixed viscosity (25°C, mPa•s)	600±100 mPa.S	

Weight (100g)	5°C	15°C	25°C
Working Time	60min	45min	30min
Initial Cure Time	10-12h	6-8h	2-4h
Solid Cure Time	16h	10h	6h

Test data

Test Items	Unit	Technical Specifications	Test Standards
Hardness	Shore D	78±5	GB/T 531.1-2008
Light Transmittance	%	—	GB/T 2410-2008
Yellowing Resistance Grade	UV 300W	—	GB/T 16422.3-2014
Defoaming Property	S	—	GB/T 21885-2023

Instructions for Use

1. Environmental Requirements: Application temperature 20–28°C; ensure a dry, well-ventilated, dust-free, and moisture-free environment; avoid direct sunlight.
2. Mold Preparation: Ensure the mold is clean and free of water, oil, and dust; place it on a flat, stable surface.
3. Precise Mixing: Mix strictly according to the weight ratio of Part A to Part B (1:1); do not alter the ratio.
4. Thorough Mixing: Stir continuously in one direction for at least 60 seconds until the mixture is completely clear and free of streaks, layering, or cloudy patches.
5. De-aeration: Allow the mixture to sit for 2–3 minutes after stirring to let trapped air bubbles rise to the surface and dissipate.

6. Pouring: Pour slowly into the mold to avoid creating bubbles from impact; remove any remaining small bubbles by lightly passing a heat gun over the surface or popping them with a toothpick.

7. Curing: Allow to cure undisturbed at room temperature; the surface will set in 4–6 hours, and full curing takes 24 hours. Do not touch, move, expose to water, or subject the piece to vibration during the curing process.

Safety Precautions

1. It is recommended to wear disposable gloves during application and ensure the work area is well-ventilated.
2. Avoid prolonged skin contact with uncured adhesive. In case of accidental contact, wipe with alcohol and then wash with soap and water.
3. If the product accidentally enters the eyes, rinse immediately with plenty of water for 15 minutes and seek medical attention promptly.
4. Do not ingest. Keep out of reach of children; do not allow children to handle the product unsupervised.
5. Seal the bottle and clean tools immediately after use to prevent the adhesive from drying out and becoming unusable.

Storage and Shelf Life

1. Storage conditions: Store in a cool, dry, dark, and sealed environment at temperatures between 5°C and 28°C.
2. Shelf life (unopened): 12 months.
3. It is recommended to use the product as soon as possible after opening; prolonged exposure to air may cause moisture absorption and poor curing.

Note: The above parameters are based on test data obtained under standard conditions; variations in temperature, humidity, and mixing ratios may slightly affect the curing results. Actual performance depends on on-site application conditions.