

Shenzhen Jianghe New Materials  
Technology Co.,Ltd

Technical Data Sheet (TDS)

Room 1008, Building 1, Cofco Yunjing, Martin Street, Heshui Kou  
Community, Guangming District, Shenzhen, China, 518107  
Tel: +86-13418798686 | Email: zigang.lei@jhresin.cn  
Website: <https://jhresin.en.alibaba.com/>

**Doc No.:** EPR-1201A-1  
+ 1201B-30-TDS-008  
**Issue Date:** 2023-05-20  
**Revision:** 1.0

1201A-1+1201B-30

Typical Properties

Epoxy Resin 1201A-1+1201B-30 is an environmentally friendly epoxy adhesive that cures at room temperature or under low-temperature conditions. It features excellent leveling, self-debubbling, yellowing resistance, high transparency without ripples, and a glossy surface, suitable for both room temperature and heat-assisted curing.

Applications

Epoxy Resin 1201A-1+1201B-30 is specifically engineered for module potting, mold casting, and critical electronic protection applications including insulation, moisture-proof encapsulation, and secure shielding of components.

Physical & Chemical Properties

| Property                     | Part A: 1201A-1       | Part B: 1201B-30      |
|------------------------------|-----------------------|-----------------------|
| Color                        | Colorless Transparent | Colorless Transparent |
| Density (g/cm³)              | 1.07±0.05             | 0.95±0.03             |
| Viscosity (mPa•s)            | 2000±500              | 1500±500max           |
| Brookfield DV2TRV Viscometer | 25°C                  |                       |
| Mix Ratio (by Weight)        | 1 : 1                 |                       |
| Mix Ratio (by Volume)        | 1 : 1                 |                       |

## Properties of Cured Material

| Property                     | Base + Curing Agent                              |
|------------------------------|--------------------------------------------------|
| Physical State               | Liquid                                           |
| Viscosity (mPa•s)            | 1500±500mPa.S                                    |
| Brookfield DV2TRV Viscometer | 25°C                                             |
| Pot Life (100g mass @ 25°C)  | 60±15 min                                        |
| Dosage                       | 280-350 g/m <sup>2</sup> (varies with substrate) |

## Processing & Curing Parameters

|                                  |                                              |
|----------------------------------|----------------------------------------------|
| Initial Cure (for 2mm thickness) | Approx. 18-24 hours at Room Temperature (RT) |
| Full Cure (for 2mm thickness)    | 48 hours at Room Temperature (RT)            |
| Service Temperature Range        | 10°C to 70°C                                 |

## Application Instructions

Working Conditions: Ensure the mixing container is clean. Measure Components A and B strictly by the designated weight ratio. After accurate weighing, stir the mixture thoroughly in a clockwise direction, scraping the inner walls of the container. Allow the mixture to rest for 3-5 minutes before application.

## Precautions

- Dosage Control:** Prepare the adhesive quantity based on the pot life and application rate to avoid waste.
- Low-Temperature Handling:** When the ambient temperature falls below 15°C, preheat Component A to 30°C before mixing to facilitate easier application, as the viscosity increases in cold conditions.
- Storage After Use:** The container must be sealed immediately after use to prevent moisture absorption, which can render the product unusable.
- High-Humidity Curing:** At relative humidity levels above 85%, the cured surface is prone to absorbing moisture from the air, forming a whitish haze. Therefore, room

temperature curing is not recommended under these conditions; heat-assisted curing is advised.

## Test Result

|                                    |         |      |
|------------------------------------|---------|------|
| <b>Hardness</b>                    | Shore D | 75±5 |
| <b>Flexural Strength</b>           | Kg/mm2  | 28   |
| <b>Heat Deflection Temperature</b> | °C      | 40   |
| <b>Water Absorption</b>            | %       | <0.1 |
| <b>Compressive Strength</b>        | Kg/mm2  | 8.4  |

## Save

|                                        |                                                         |              |
|----------------------------------------|---------------------------------------------------------|--------------|
| <b>Freeze-Sensitive</b>                | Yes                                                     |              |
| <b>Moisture-Sensitive</b>              | Resin                                                   | Curing Agent |
|                                        | No                                                      | Sensitive    |
| <b>Recommended Storage Temperature</b> | 15°C to 25°C (Must not fall below 10°C or exceed 50°C.) |              |
| <b>Shelf Life</b>                      | 6 months in original, unopened packaging                |              |
| <b>Packaging</b>                       | Resin                                                   | Curing Agent |
|                                        | 5 kg pail                                               | 5 kg pail    |

**Note:** The performance data provided above are typical values obtained under laboratory conditions of 25°C and 70% relative humidity. They are for reference purposes only.