

Shenzhen Jianghe New Materials
Technology Co.,Ltd

Technical Data Sheet (TDS)

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+ 1201B-30-TDS-008
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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 ² (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

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

Save

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