

# Shenzhen Jianghe New Materials Technology Co.,Ltd

## Technical Data Sheet (TDS)

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## 318AB-C2

### Typical Properties

Epoxy Resin 318AB-C2 cures at room or elevated temperatures, delivering high transparency, excellent surface gloss, and effective self-debubbling.

### Applications

Epoxy Resin 318AB-C2 is specially designed for module potting, mold casting, and electronic component protection applications such as insulation, moisture-proof encapsulation, and secure shielding.

### Physical & Chemical Properties

Property	Part A: 318A-C2	Part B: 318B-C2
Color	Colorless Transparent	Colorless Transparent
Density (g/cm <sup>3</sup> )	1.07±0.05	0.95±0.03
Viscosity (mPa·s)	800±200	80max
Brookfield DV2TRV Viscometer	25°C	
Mix Ratio (by Weight)	3 : 1	
Mix Ratio (by Volume)	2.7 : 1	

## Properties of Cured Material

<b>Property</b>	Base + Curing Agent
<b>Physical State</b>	Liquid
<b>Viscosity (mPa·s)</b>	300±50mPa.S
<b>Brookfield DV2TRV Viscometer</b>	25°C
<b>Pot Life (100g mass @ 25°C)</b>	50±10 min
Brookfield DV2TRV Test, Maximum Viscosity 800mPa·s	
<b>Dosage</b>	280-350 g/m <sup>2</sup> (varies with substrate)

## Processing & Curing Parameters

<b>Initial Cure</b>	Approx. 12-14 hours at Room Temperature (RT)
<b>Full Cure</b>	24 hours at Room Temperature (RT)
<b>Service Temperature Range</b>	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	80
<b>Flexural Strength</b>	Kg/mm2	28
<b>Heat Deflection Temperature</b>	°C	50
<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.