

Characteristics

Epoxy Resin 308AB-3S1 is a two-component, soft epoxy resin with moderate viscosity. It offers excellent UV resistance, natural deaeration, high transparency, and good flexibility when cured at room temperature or with heat. It also provides a smooth surface finish.

Applications

Epoxy Resin 308AB-3S1 is primarily used for:

- Encapsulation of LED strips and light bars
- Stickers and decals
- Flat crystal coating
- Crystal jewelry coating
- Surface encapsulation of signs, nameplates, and badges
- Transparent potting of electronic components

Technical Parameters

Parameter	Main Agent 308A-3S1	Curing Agent 308B-3S0
Color	Colorless, transparent	Colorless, transparent
Density (g/cm ³)	1.07 ± 0.05	0.95 ± 0.03
Viscosity (mPa·s)	650 ± 100	150 max
Testing Method	Brookfield DV2TRV at 25°C	

The performance data provided above was measured under laboratory conditions at a temperature of 25°C and a relative humidity of 70%. These values are typical and are intended for customer reference only.

Parameter	Main Agent 308A-3S1	Curing Agent 308B-3S0
Mixing Ratio (by weight)	3 : 1	
Mixing Ratio (by volume)	2.7 : 1	

After Mixing (Main Agent + Curing Agent)

Parameter	Value
State	Fluid
Viscosity	200 ± 50 mPa·s
Testing Method	Brookfield DV2TRV at 25°C
Pot Life (100g, 25°C)	50 ± 5 min
Maximum Viscosity	840 mPa·s
Usage	280-350 g/m ² (varies by substrate)

Curing Time

Parameter	Time
Initial Curing	10-12 hours at room temperature
Final Curing	18 hours at room temperature
Operating Temperature Range	10°C - 70°C

Usage Instructions

The performance data provided above was measured under laboratory conditions at a temperature of 25°C and a relative humidity of 70%. These values are typical and are intended for customer reference only.

- **Working Environment:** Ensure the container is clean. Mix components A and B strictly according to the weight ratio. Measure accurately and stir thoroughly along the inner wall of the container in a clockwise direction. Let the mixture sit for 3-5 minutes before use.
- **Precautions:**
 - Adjust the amount of resin based on the pot life and usage to avoid waste.
 - When the temperature is below 15°C, preheat component A to 30°C before mixing to ease handling (component A thickens at low temperatures).
 - Seal the container after use to prevent moisture absorption, which can render the product unusable.
 - If the relative humidity exceeds 85%, the cured surface may absorb moisture from the air, forming a white haze. Therefore, room temperature curing is not recommended under such conditions; use heat curing instead.

Test Results

Parameter	Value
Hardness (Shore A)	58-72
Flexural Strength (Kg/mm ²)	28

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Parameter	Value
Heat Deflection Temperature (°C)	40
Water Absorption (%)	<0.1
Compressive Strength (Kg/mm ²)	8.4

Storage

Parameter	Value
Freezing Sensitivity	Yes
Moisture Sensitivity	Resin: No, Curing Agent: Sensitive
Recommended Storage Temperature	15°C - 25°C (not below 10°C or above 50°C)
Shelf Life	6 months in original packaging
Packaging	5 kg/can

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