Shenzhen Jianghe New Materials Technology Co.,Ltd

Technical Data Sheet (TDS)

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312A-6-X+312B-N5

Characteristic

Epoxy resin 312A-6-X + 312B-N5 is an epoxy adhesive that cures at both room and elevated temperatures; it features excellent transparency, high surface gloss, and superior natural air-release properties.

Application Areas

Epoxy resin 312A-6-X + 312B-N5 is specifically designed for applications such as nameplates, smart cards, surface doming coatings, and flooring resins.

Physical & Chemical Properties

Property	Part A: 312A-6-X	Part B: 312B-N5
Color	Colorless Transparent	Colorless Transparent
Density (g/cm³)	1.03±0.03	1±0.02
Viscosity (mPa·s)	2500±500	400±100
Mix Ratio (by Weight)	2 : 1	

After Mixing

Property	Base Component + Curing Agent
Physical State	Liquid
Viscosity (mPa·s)	1300±300mPa.S
Pot Life (100g mass @ 25°C)	30 min

Curing Time

Initial Cure (2mm Thickness)	14h (Surface Dry)
Final Cure (2mm Thickness)	36h
Service Temperature Range	0°C–90°C

Instructions for Use

Operating Environment

Ensure the mixing container is clean. Accurately weigh Components A and B according to the specified weight ratio. Stir the mixture thoroughly in a clockwise direction along the inner wall of the container, then let it stand for 3–5 minutes before use.

Precautions

Prepare the adhesive mixture according to the usable pot life and required quantity to avoid waste. When the ambient temperature is below 15°C, preheat Component A to 30°C before mixing to facilitate handling (Component A tends to thicken in cold temperatures). Reseal the container lid tightly after use to prevent product spoilage caused by moisture absorption. When relative humidity exceeds 85%, the surface of the cured product is prone to absorbing atmospheric moisture, resulting in a cloudy, white haze; therefore, room-temperature curing is not recommended under these conditions—heat curing is advised instead.

Test Result

Hardness	Shore D	82±3
Flexural Strength	kg/mm²	27
Heat Deflection Temperature	℃	48
Water Absorption	%	<0.1
Compressive Strength	Kg/mm2	8.3

Saving

Freeze-Sensitive	Yes	
Moisture-Sensitive	Resin	Curing Agent
	No	Sensitive
Recommended Storage Temperature	15℃ to 25℃ (Must not fall below 10℃ or exceed 50℃.)	
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.