PRODUCT DATA SHEET

Epoxy Resin HJ101A-10 / Curing Agent HJ101B-10

APPLICATIONS AND FEATURES

This high-quality resin adhesive cures at room temperature and is suitable for potting AC capacitors, buzzers, negative ion generators, aquarium pumps, ignition coils, power modules, sensors, electronic controllers and other electronic components.

The cured material has a smooth, glossy surface, high hardness, low dielectric loss and shrinkage, and high volume resistivity. It provides good electrical insulation and resistance to moisture, temperature, voltage and chemicals.

APPEARANCE AND PHYSICAL PROPERTIES

Property	HJ101A-10	HJ101B-10
Color	Black	Brown liquid
Density at 25°C	1.55 g/cm^3	1.05 g/cm^3
Viscosity at 25°C	3000-5000 cP	95 cP
Shelf life at 25°C	6 months	6 months

DIRECTIONS FOR USE

Mixing ratio: A:B = 100:20 by weight
Working time: 30-40 minutes at 25°C
Curing conditions: 7-8 hours at room temperature, or 2 hours at 60°C

HANDLING PRECAUTIONS

• Stir Part A thoroughly before dispensing. Weigh both components accurately at the specified ratio. After combining Parts A and B, mix thoroughly to avoid incomplete curing.

• Working time is defined as the time required for the viscosity of a 100 g mixture to double at 25°C. This does not mean that the mixture necessarily becomes unusable after this time.

• Ambient temperature and mixed quantity affect working time. Mix Parts A and B in small batches whenever possible, and use the mixture promptly.

• Ambient temperature and the quantity dispensed affect curing time.

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CURED PROPERTIES

Property	Unit / Test condition	Value
Permittivity	1 kHz	3.75
Dielectric loss	1 kHz	0.02
Compressive strength	kg/mm^2	24
Flexural strength	kg/mm^2	11
Tensile strength	kg/mm^2	16.5
Impact strength	$kg/mm^2/cm^2$	8.5
Dielectric constant	1 kHz	3.8-4.2
Hardness	Shore D	80
Temperature resistance	°C	100
Volume resistivity at 25°C	Ohm-cm	1.35×10^{14}
Surface resistance at 25°C	Ohm	1.2×10^{14}
Dielectric strength at 25°C	kV/mm	16-18

STORAGE AND PACKAGING

• Store tightly sealed in a cool, dry, well-ventilated place. Shelf life is six months. Material past its shelf life may still be used if it passes testing.

• The curing agent readily absorbs moisture and must be kept tightly sealed and stored in dry conditions.

• Packaging: resin in 25 kg pails; curing agent in 5 kg or 20 kg pails.

TECHNICAL NOTE

The above values are typical test data obtained with a 30 g mixture at 70% humidity and 25°C. They are provided for reference only and do not guarantee that all values will be achieved under any particular conditions. Users should rely on actual test results under their own conditions of use.