

## E3049 Technical Data Sheet

GLUEFORCE **E3049** Epoxy sealant is a room temperature/heating cured epoxy resin. This kind of two-component epoxy adhesive used for design, protection the high strength or confidential electronic products.

GLUEFORCE **E3049** Epoxy sealant curing without heating. To 3:1 (weight ratio) completely mixed part A and part B, curing in a certain time, and form protection.

GLUEFORCE **E3049** Characteristics:

- ◆ Against moisture, dirt and other atmospheric composition
- ◆ High strength
- ◆ Has confidential role
- ◆ Solvents, no cure by-products
- ◆ Have stable mechanical and electrical properties between -45°C-120°C

### 1 Performance

Item	A	B	Mixture (weight ratio 3:1)
Appearance	Black	Brown	Black
Density @25°C	1.40 g/cm <sup>3</sup>	1.15 g/cm <sup>3</sup>	1.33 g/cm <sup>3</sup>
Viscosity @25°C	5000-11000 mPa.s	95-150 mPa.s	1000-2000 mPa.s

### 2 Typical performance:

Open time (@25°C)	50 min
Curing Time	25°C/24 hour or 80 °C/60 min
Hardness	Shore D 85

GLUEFORCE E3049 @25°C, Performance after curing

Item	Value
Tensile strength (Mpa)	8.11
Thermal Conductivity	≥0.4 W/mK
Expansion Coefficient μ m/ (m, °C)	46 (T<Tg) 160(T>Tg)
Dielectric Strength @25°C	≥20k V/mm
Dielectric Constant @25°C	3.53 MHz
Glass Transition Temperature°C (Tg)	51
Volume Resistance	≥1.2x10 <sup>15</sup> Ω·cm

### **3 Operation caution:**

- ◆ Agent A place for a long time, maybe produce precipitation, mix part A and B access should be paid attention to save after sealing.
- ◆ Mixing should pay attention to the same direction, otherwise, it will stir with too much bubble; Borders and the bottom of the container sizing material should also stir well, can appear otherwise stir caused by uneven local not curing phenomenon.
- ◆ Casting the product vacuum pumping, remove again bubble can improve after curing products comprehensive performance.
- ◆ This glue curing exothermic reaction, match the process as the quantity of cement can affect the operation, so the length of time with 100 g resin content of operation time is only a reference time.

### **4 Storage and transportation:**

- ◆ Part A and part B need to avoid light, heat, save after sealed. (Can be used as the non-dangerous goods transport and storage)
- ◆ Shelf life Agent A: 1 year, Agent B:6 months(25°C)

### **5 Disclaimer**

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.