

Three Bond 2217L

(One-comp. Epoxy Resins / Chip Bonder)

Three Bond 2217L is one-component epoxy resin, which has been specially developed for surface mounting, in order to keep the components in position on the printed circuit boards during the placement and the soldering process. This SMD adhesive (Surface Mount Adhesive) excels in fast application methods and reduced curing times and ensure a perfect safety of the process.

1. Features

- The simple application by means of automatic dispensers and screen printers allows a faster placement.
- The fast curing of the resins at low temperatures (80°C ~) enables shorter processing times (example 150°C x 1 ~ 5 min).
- As the resins contain more than 99 % of nonvolatile matters, there is only a minimal shrinkage and outgassing while curing.
- The cured resins excel in excellent electric properties as well as in good chemical and thermal resistance.
- Perfectly suited as Chip-Bonder for Quad Flat Package (QFP).

2. Typical properties

Test Item	Result	Unit
Colour	Red	
Viscosity at 25°C	154	Pa⋅s
Density at 25°C	1.24	g/cm³
Curing time at 80°C	200 ~	sec
100°C	230	sec
120°C	70 ~	sec
150°C	100	sec
	50 ~	
	80	
	35 ~	
	65	
Shore-hardness *	88 D	
Shear strength Fe/Fe [MPa] *	22.8	MPa
Glass transition temperature	99	°C
[°C] *		
Shelf life at 5°C [months]	6	months

* Curing condition : 120°C x 10min

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3. Handling

- Keep the epoxy resins tightly closed in the original container and store them in a dark, dry, sufficiently ventilated and cool place.
- Before opening the container let the products reach room temperature as otherwise the formation of dew would be resulting.
- In order to obtain optimal results remove humidity, fat and other impurities from the fitting surfaces.
- According to the nature of the joints (width, surface roughness, unevennesses) apply an appropriate quantity of epoxy resins uniformly on one of the fitting surfaces and join the parts immediately, position them correctly and fix them.
- The degree of curing varies depending on the thickness of the coating, the ambient temperature and the duration of the process.

- When using precision resins, changes in viscosity versus the ambient temperature are to be verified.
- Products once transferred into another container should not be returned to the original container. Excess sealant can be easily wiped off with a cloth.

All data given here were compiled to the best of our knowledge and are based on experiments and tests of our Company. We cannot guarantee the results obtained through the use of our products, and all products are sold and samples given without any warranty, expressed or implied, of fitness for any particular purpose or otherwise and upon condition that the user shall make his own tests to determine the suitability of the product for his purpose.

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