

SMT Red Adhesive

SMT Red Adhesive is a one component epoxy based heat curing adhesive. It designed for stencil printing. High bonding strength, high humidity-intensity, excellent electrical performance and good storage stability

Typical Usage

Mainly used for the bonding of the mounted components on SMT.

Properties of uncured

Features	Value	Range
Appearance	Red cream	
Chemical Type	Epoxy Resin	
Viscosity (Pa.s) (Brookfield RV) Spindle 7		280-400
Thixotropic index	6.8	
Density (g/cm ³)	1.35	1.30-1.40
Operate Time at Room Temp. (@25°C)	14	
Curing Condition	120s at 150°C 90s at 170°C	

The product will obtain to higher bonding strength when higher curing temperature and longer cured time. The figure curve is the recommended curing temperature and heating rate, under the corresponding temperature, components need the time when they achieve good bonding strength. Users can set the curing furnace's temperature parameters according to the solidified characteristic curve of the glue and the heat efficiency of the Reflow Ovens.

Properties of cured

Physical Property	Typical Value
Hardness (Shore D)	81
Shear Strength (MPa)	14.8
Tg (°C)	98
Dielectric strength (KV/mm)	27.5
Surface resistance (Ω)	3.4×10 ¹⁶

Storage

SMT Red Adhesive should be stored between 2-8 °C in refrigerator.

Direction for Use

The product should be recovered to room temperature before use, don't open the package before recovered to room temperature (the recovering time of 200 gm packaging is about 2-4 hours). The product should be used at 20-25°C, <60% Rh. The glue viscosity will decline under the higher temperature, which influences printing effect; High humidity can increase the glue of moisture absorption which shorten the opening hours of the glue and influence the glue bonding strength. This product opening time is 48 hours at 20-25 °C, 55% Rh. Suggest to print at the speed of 20-150 mm/s; Drawknife pressure is 3-4 N/cm (After scraping, sheet should be clean, and avoid producing wire drawing); the deviating speed from the sheet is 0.1 -3.0 mm/s. Not cured adhesive which is stick on line wires can be erased with MAGIN, acetone or Isopropyl alcohol. Any unused adhesive should be sealed in plastic bag and then stored in refrigerator.

Technical Support

Contact us regarding any questions, improvement suggestions, or problems with this product.
Application notes, instructions.
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Manufacturing & Support

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Warranty

MAG Chemical warranties this product for 6 months from the date of manufacturing. MAG Chemical makes no claims as to shelf life of this product for the warranty. The liability of MAG Chemical whether based on its warranty, contracts, or otherwise shall in no case include incidental or consequential damage.

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