

## Liquid white photosensitive solder ink (LE-600)

**LE-600** is a two-component liquid white photosensitive solder mask, which is mainly made of resin, photosensitive materials, fillers, pigments, solvents and other components. It's an excellent white solder mask for the specifically LED PCB, which has excellent resistance to high temperature deformation, yellowing, highly reflective, anti-chemical corrosion, solder graphic precision, good adhesion for the circuit board of sprayed tin and plated gold.

Properties of the ink		
Items	Technical features	Notes
Color	A, B component is white	
Viscosity(25℃)	220±20dPa.s	VT-04F
Fineness	≤8μm	0-25μm Fineness gauge
Density (25℃)	1.40-1.50g/ml	
Adhesion	100/100	Laceration experiment, JIS K5400 8.5
Hardness	≥6H	Pencil harder, JIS K5400 8.4
Insulation	≥ 2.0 × 10 <sup>12</sup> Ω	(IPC-SM-840C 3.8.2)
soldering performance	260 ± 5 °C, 10 seconds, 3 times without blistering off, no obvious color change	(JIS C6481 5.5)
Flame retardant	UL94 V-0	
Environment-protection standard	In compliance with RoSH directives	SGS testing
Package	1.0kg/bucket, 10kg/box	According to customer requirements
Shelf time	6 months since the date of manufacture	Store below 25℃ in dark
Process parameters		
Mixing weight ratio:	85:15 (main agent 85 g, hard agent 15 g, according to this ratio calculation)	
Mixing time:	10~20 minutes, completely mixed	
Standing time after mixing:	> 10 minutes	



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Printing(commend):	A. Screen printing screen mesh 36 ~43T B. Roller coating producing speed 1.5 ~ 3.0 m/min
Pre-bake temperature:	75 °C (hot air circulation oven)
Pre-bakeTime:	double-sided printing :the first side: 10~15 minutes, the second side: 15~ 20 minutes single-sided printing :25 ~ 30 minutes
Exposure standards:	450 ~ 900 mJ/cm <sup>2</sup> (the effective value through the polyester film), exposure step:9~11 step (standard in the remained film)
Developing :	(1±0.2)% Na <sub>2</sub> CO <sub>3</sub> water rosolution, 30±2 °C, spray pressure 0.25± 0.05MPa
Development time :	60 ~ 90 seconds
Standing time after development :	Min.10minutes
High-temperature curing	150 °C, 60min
Open time after mixing	Less than 24hours,below 25°C in dark

### Attention :

1. The base and hardener should be mixed according to the ratio and stirred thoroughly before using.
2. We will offer you special diluent if the ink need dilute.
3. The values above are based on experiments in our lab. Experiments need to be carried out in order to get proper using condition.

