

ESD-E

Jet Valve, Electro-static discharging

1. Product description

ESD-E paste is an optimized paste for the jet valve process, which is a material for removing static electricity generated from surfaces of IPS or FFS-type LCD panel.

2. Benefits

Uniform dot size with $\pm 10\%$ tolerance.
 Long-term dispersion stability up to 3 months.
 Continuous jetability to minimize number of dummy shots up to 5,000 shots.
 Has over 100 μm elasticity.

3. Processing

ESD-E paste is optimized for dispensing and jet valve process and can be applied to both normal and precise type needle. We recommend using the SNA I.D. 0.26 to 0.31 mm or SHN I.D 0.30 mm needle.

4. Cleaner

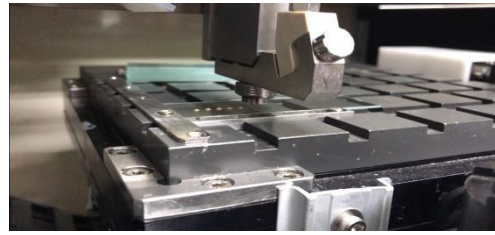
Alcohols, Ketones

5. Curing Condition

Surface drying takes 10 minutes and 20 minutes enough to dry dots at room temperature. Raising temperature will accelerate paste dry.

6. Storage and shelf life

The paste must be well sealed tightly and stored in a refrigerator of 0 to 10 °C. Unopened paste is valid for three months



from the manufacturing date. Exhaust used paste as soon as possible, but mixing used and new products is strictly prohibited.

7. Safety and handling

Refer to MSDS for safety and handling information. Leave pastes removed from refrigerator at room temperature for 2 to 3 hours before use. Please exhaust of open products within 24 hours.

8. Properties

Items	Value
Viscosity*	2,000 ~ 3,000 cPs
Thixotropic index**	3.0 ~ 4.0
Solid contents	45.0~50.0 wt.%
Sheet resistance	100~500 mΩ/□
Hardness	2H

* Brookfield HAT, 20rpm, #15 spindle @ 22°C

** Brookfield HAT, 2/20rpm, #15 spindle @ 22°C

9. Environmental test

Items	Value
Thermal shock	+85°C to -40°C, for 30min each, 100 cycles
High-temp. Endur.	+85°C, 10days
Temp.-Humi. test	+85°C, 85%RH, 1,000 hrs

10. Contact

youngheo@sipkorea.kr