

## LOCTITE ECI 1014

High Conductive & Stretchable Silver Ink



LOCTITE ECI 1014 is a silver ink based on a thermoplastic polyurethane binder combining high conductivity and high elongation. The combined stretchability and high conductivity enable the development of medical wearables, smart textiles, automotive interior, and flexible heater applications. LOCTITE ECI 1014 can be dried at low temperatures, down to 80 °C. It is suitable for screen printing or high-speed printing after dilution.

### APPLICATION EXAMPLES

- Printed Sensors
- Wearables
- Health Patches
- Stretchable Electronics
- In Mold Electronics
- Flexible Heaters

### MARKET

 Automotive

 Healthcare

 Traditional Electronics

 Furniture & Building

 IoT Antennas

### TECHNICAL PRODUCT DATA

<b>Product Color</b>	» Silver
<b>Solid Content (% by weight)</b>	» 65
<b>Coverage (m<sup>2</sup>/kg at 10 µm dry coating thickness)</b>	» 12
<b>Sheet Resistance (Ω/sq/25 µm)</b>	» < 0.010
<b>Recommended Drying Cycle</b>	» 15 min, 120°C
<b>Application Method(s)</b>	» Screen Printing
<b>Compatible Substrates</b>	» PC, PET, TPU, PI, PEN
<b>Ink Viscosity (Rheometer, at 15 s<sup>-1</sup>, mPa.s)</b>	» 10,000
<b>Specific Product Properties</b>	» Elongation > 50 %