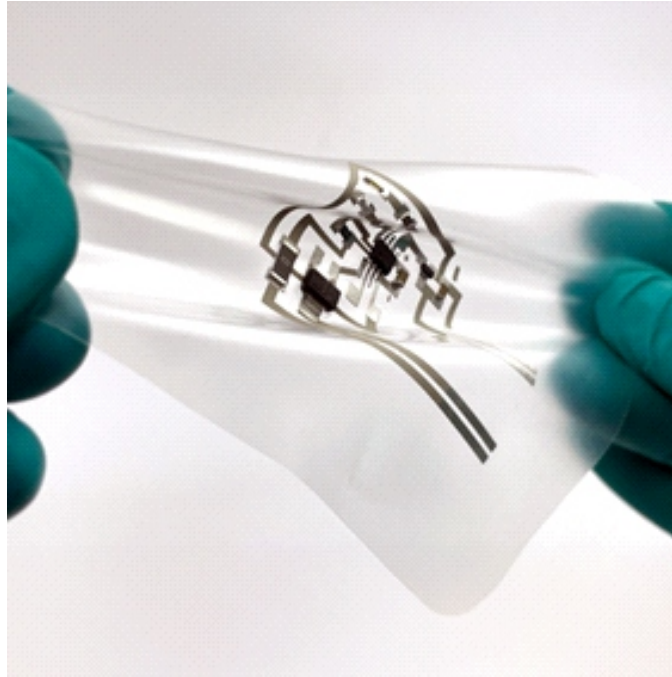




Stretchable Ink Printing-Elastic Conductive Circuit Technology

SPECIFICATIONS :

- Printing method: Screen printing
- Substrates: TPU, elastic textiles, flexible polymer films
- Conductive layer: Stretchable silver or carbon inks
- Stretchability: Typically 20–50% elongation (higher with specialized formulations)
- Washability: Good with proper encapsulation
- Operating voltage: Suitable for low-voltage electronics
- Layer thickness: Ultra-thin printed traces
- Durability: Maintains conductivity after repeated cycles of stretching

Key Features :

- Fully stretchable conductive ink
- Stable electrical performance under repeated stretching
- Compatible with screen-printing processes
- Works on elastic films and fabrics
- Withstands bending, folding, and twisting
- Supports sensors, LEDs, and low-voltage components
- High durability and good wash resistance on textiles
- Customizable for different stretch levels

Advantages :

- Enables electronics on elastic and form-fitting materials
- Resists cracking or breaking under stretch
- Lightweight and comfortable for wearables
- Easy integration using standard printing methods
- Supports seamless and compact product designs
- Reduces reliance on rigid components
- flexible and soft-electronics Ideal for growing markets

Application :

- Wearable electronics and smart clothing
- Flexible lighting and printed LED circuits
- Medical monitoring patches and health wearables
- Soft robotics and motion-sensing surfaces
- Stretchable touch buttons and control panels
- Interactive textiles

Technical Specifications :

Model Number	PE Stretchable Ink Printing
Category	Functional Printed Electronics