



LED On Glass Technology-Printed Illuminated Glass Packaging

Printed Lighting Directly On Glass For Smart, Premium, And Sustainable Packaging

LED on Glass Technology Brings Printed Electronics Directly Onto Glass Surfaces. Functional Inks, Circuits, And LEDs Are Screen-printed Onto Bottles Or Glass Containers, Creating Illuminated Effects Without Labels, Plastic Components, Or Bulky Lighting Modules. This Method Has Been Successfully Used In Premium Packaging, Including Feste Liqueur Bottles Produced At High Scale On Automated Glass Decoration And Filling Lines. The Technology Is Safe, Durable, And Designed To Integrate Seamlessly Into Existing Packaging Processes. With Touch-activated Lighting And Customizable Design Options, Led On Glass Enables Brands To Create Memorable Shelf Presence While Reducing Waste And Improving Sustainability.

SPECIFICATIONS :

- Substrate: Glass containers, bottles, jars
- Printing Method: Screen printing of conductive and functional inks
- Lighting Type: Surface-mounted LEDs embedded in printed circuit
- Activation: Touch-activated or automatic (depending on design)
- Power: Printed battery or integrated battery module with holder
- Durability: Tested for handling, shelf life, and environmental exposure
- Production Capacity: Scalable to ~1M units annually (based on partner facility capabilities)

Key Features :

- Printed circuits and LEDs directly on glass
- Touch-activated or sensor-based lighting
- No plastic or paper labels required
- Supports high-volume, automated production
- Proven durability and child-safe design
- Compatible with glass decoration lines
- Thin, lightweight printed construction
- Customizable graphics and lighting effects

Advantages :

- High-impact illuminated packaging
- Fully integrated printed electronics — no labels required
- Enhances brand visibility and consumer engagement
- Eco-friendly alternative to plastic components
- Reliable performance in standard manufacturing lines
- Suitable for large-scale commercial production
- Lightweight, low-energy, and easy to dispose

Application :

- Premium alcoholic beverages
- Wine and spirits promotional editions
- Cosmetics and fragrances
- Luxury gift packaging
- Seasonal or festival-edition products
- Limited-edition retail promotions
- Brand activation campaigns
- Smart display bottles and glass collectibles

Technical Specifications :

Model Number	PE LED on Glass
Category	Functional Printed Electronics