

Wearable Medical Components

Advanced Manufacturing Solutions for Healthcare

Wearable medical technologies are revolutionizing healthcare by enabling real-time monitoring, personalized treatment, and greater patient autonomy. Saint-Gobain supports this transformation with precision injection molding, advanced materials, and integrated manufacturing tailored for skin-contact medical devices.

Built for wearables by design

At Saint-Gobain we combine world-class materials science with vertically integrated injection molding to meet the rigorous demands of wearable medical devices. We specialize in micro molding, multi-material (two-shot) molding, and overmolding of flexible and rigid components to support miniaturized, lightweight designs that remain comfortable in prolonged skin contact.

Our ISO 14644-1 Class 8 cleanroom facilities are purpose-built for medical molding, enabling full-scale production of components that meet stringent requirements for biocompatibility, adhesion, and durability. Whether it's soft-touch interfaces, structural housings, or fluid-tight seals, our molded parts are engineered to perform in real-world clinical and consumer use environments.

Precision meets production

Our in-house engineers, toolmakers, and process experts collaborate early in the development cycle to apply Design for Manufacturability (DFM) principles that reduce production complexity, improve throughput, and simplify downstream integration.

Our quality systems and cleanroom infrastructure are designed to support your project from prototyping and clinical evaluation to high-volume scale-up. We offer advanced capabilities in silicone-toplastic bonding, multi-cavity micro molds, and complex geometries, backed by robust process validation and metrology.

With our commitment to innovation and quality, you can trust Saint-Gobain to help bring cutting-edge wearable medical technologies to market..

Saint-Gobain Performance Plastics Corporation's Life Science ("Saint-Gobain") products that are used as components in the manufacture of any Medical Devices (as defined by the FDA) are sold by Saint-Gobain only and exclusively to Medical Device manufacturers for use in the manufacture, assembly or distribution of their medical devices. Medical Device manufacturers, to whom Saint-Gobain sells components or for whom Saint-Gobain acts as a subcontractor for finished products, are solely responsible for determining whether their finished products are a medical device and complying with the appropriate certifications and registrations.

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FEATURES/BENEFITS

- Clean room manufacturing to ISO 14644-1 Class 8
- Micro molding and two-shot injection molding
- In-house tool design and precision mold making
- DFM support for optimized scalability
- Silicone overmolding and multi-material bonding

TYPICAL APPLICATIONS

- Biosensor housings and seals
- Continuous glucose monitors (CGMs)
- Drug delivery wearables and auto-injectors
- Insulin pumps and wearable injectors
- Smart transdermal patches
- Wearable ECG and cardiac monitoring patches

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