

SAINT-GOBAIN MEDICAL

# Thermoplastic Injection Molding

High-Precision Molding and Assembly for Complex Medical Components

Saint-Gobain provides fully integrated thermoplastic injection molding solutions purpose-built for the medical device market. We manage the entire process from tool design and mold build to validation and high-volume clean room production so you can bring innovative products to market faster with confidence in quality and compliance.

## Advanced injection molding

At Saint-Gobain, our injection molding operations are designed to meet the unique demands of medical device manufacturing, with a focus on precision, cleanliness, and consistency. We operate 36 injection molding machines with clamping forces from 50 to 300 tons and can mold components up to 150 mm in diameter. Clean room and white room environments are certified to ISO 14644-1 Class 8 standards, supporting applications that require tight regulatory control and product safety.

We process a wide range of medical-grade polymers including PI, PAI, PBI, PEEK, PPS, PES, PEI, PSU, PPSU, UHMWPE, PC, PET, PA, POM, ABS, PMMA, PP, PS, PVC, LDPE, and HDPE, allowing us to tailor each solution to the performance, chemical resistance, and sterilization needs of your application.

## Comprehensive contract manufacturing and assembly

Our capabilities extend beyond molding into complete contract manufacturing and clean room assembly from tool design all the way to serial production. We support automated sub-assemblies, 6-axis robotic handling, packaging, and product validation. In-house tooling, prototyping, and polymer compounding enable us to shorten development timelines and maintain full control over material and process quality. With certified ISO 13485 systems and zero-defect targets, we provide the reliability required to launch and scale critical medical components.

Whether your device requires biocompatibility, high precision, or complex geometries, our integrated manufacturing approach is built to deliver repeatable quality across every production phase.

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.

**Note: This document is intended to provide information about the product to enable you to consider whether generally the Product meets your application need and is not intended to provide product specification. This document should not be considered a Product warranty or guaranty. To the extent this document mentions any tests done by Saint-Gobain, such tests are done under controlled laboratory circumstances and hence other factors in your use and application may impact such values.**

## FEATURES/BENEFITS

- ISO 14644-1 Class 8 cleanroom molding
- ISO 13485 certified for medical manufacturing
- In-house tooling, rapid prototyping & material development
- Broad material compatibility – including PEEK, PPS, PVC
- Micro molding capabilities
- Automated & manual assembly options

## TYPICAL APPLICATIONS

- Dental
- Dialysis
- Drug delivery systems
- Fluid management systems
- In vitro diagnostics (IVD)
- Surgical instruments

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