



Implantable Polymer Applications

Foster Corporation

is a market leading provider of specialized polymeric solutions for the medical device industry. Our customized polymers support critical applications, including FDA registered Class II and Class III devices and implants. Foster provides implantable polymer functionality through twin screw and single screw compounding techniques.

Our dedication to serving critical device applications, such as polymers for a long-term and permanent implants is indicative of our unmatched polymer and process capability and support infrastructure.



IMPLANTABLE POLYMER CAPABILITIES

Foster's capabilities regarding implantable polymer solutions includes the following:

Processing Capability

Class 7 (10,000) clean room Loss-weight-feeders

27mm twin screw extruder Pelletization (customizable)

34" single screw extruder Air & water cooling

Medical Plastics Innovation Center & Developmental Services

R & D lots to production scale up

Formulation development

Feasibility - small batch production

Process development

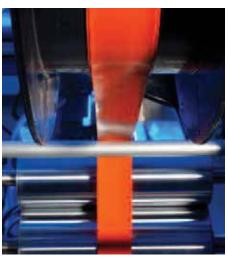
GMP trials

Validation

Finished property testing

Direct extrusion forms and shapes

- Rods
- Fiber
- Tubing
- Co-extrusion
- Film
- Pellets





IMPLANTABLE MATERIAL CAPABILITY AND EXPERIENCE

Foster is experienced in working with the following implantable materials:

Durable Implantable Materials

PEEK

PAEK

Polysulfones

Polypropylene

Thermoplastic polyurethane

Polyethylene

Others

Non-Durable Bioabsorbable Implantable Materials

Polylactides(PLA)

Polyglcolides(PGA)

Poly(lactide-coglcolides)(PLGA)

Polycaprolactone(PCL)

Alloys of the above

Polymer Enhancements and Functionality

Osteoconductivity

Pre-colored

Radiopaque filled

Antimicrobial

Reinforcement

Active pharmaceutical ingredients(API's)

Other as needed

PERMANENT IMPLANT APPLICATIONS

Sutures Biodegradeable stents

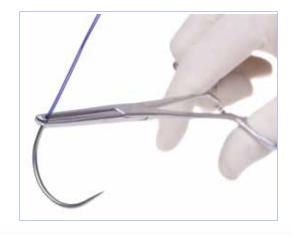
Dental devices Bone and tissue engineering

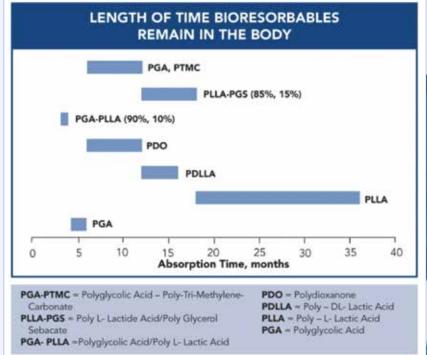
Orthopedic fixation (metal replacement) Spinal cages

Controlled drug delivery Cosmetic surgery: thread lift

Tissue fixation Wraps to hold tissue masses in place

Bone screws, etc.











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