Applications
Coronary, Peripheral, Neurovascular and Nonvascular
Vesta’s ExtruMed™ precision extrusion solutions optimize the clinical outcome of thermoplastic balloon tubing for the medical device industry.

Function
Dilatation, Drug and Device Delivery, Occlusion and More
Vesta’s balloon tubing produces high-yielding medical device balloons with uniform wall thickness, excellent concentricity, and optically clear and repeatable mechanical properties necessary for critical clinical applications.

Description
Extrusion Carefully Stressed to Support the Introduction of a Balloon Feature
Vesta’s fully integrated facility affords tight manufacturing controls for the critical parameters necessary to ensure optimal balloon performance.

Technology
Extruded, Tested and Inspected for Quality
Vesta controls each step in manufacturing high-yield balloon tubing. We extrude high-quality and highly concentric tubing that meets specific dimensional and cosmetic requirements. Vesta controls important mechanicals such as elongation and tests the tubing to ensure that required functional properties are met and defects are eliminated. After extrusion, our highly trained inspectors inspect the tubing to ensure the highest quality.

Competency
High-Quality Balloon Tubing, Thin Walls and High Burst Pressures
Vesta’s experienced team ensures that the tubing adheres to customer-specified dimensional and mechanical requirements. Our expertise includes:

• Balloon tubing manufacturing
  – Excellent concentricity > 90%
  – Even wall thickness tolerance ± 0.0005” (± 0.012 mm)
  – Tight dimensional tolerance ± 0.0005” (± 0.012 mm)
  – Repeatable mechanical properties, such as elongation and tensile strength
  – Inspection of tubing for cosmetic defects
  – Testing: fatigue, burst, collapse
• Custom materials and shapes available by request
• Irradiation for polyolefin balloon tubing
• Rapid extrusion services