



# ePTFE Solutions for Medical Devices

At Aptyx, we deliver breakthrough ePTFE (expanded polytetrafluoroethylene) solutions crafted for advanced medical devices. Our ePTFE products are precision-engineered to provide unrivaled biocompatibility, flexibility, and durability — making them the ultimate choice for vascular, gastrointestinal, and surgical applications. From concept to commercialization, we turn complex challenges into high performance solutions with ePTFE.



## Key Applications at Aptyx



Covered Stents & Frames



Vascular Grafts



Heart Leaflets



Pericardial & Vascular Patches



Gastrointestinal Sleeves

## Key Benefits of ePTFE

### ULTRA-THIN, ULTRA-DURABLE

Our ePTFE is engineered to be exceptionally thin without compromising strength. This means thinner wall implants, smaller delivery system profiles, fewer contraindications, and a broader target market — all while maintaining unmatched reliability.

### ADVANCED FLEXIBILITY & REDUCED COMPLICATIONS

ePTFE's flexibility allows it to conform to complex anatomical pathways, making it ideal for precision applications like vascular grafts and gastrointestinal sleeves. Its low tissue adhesion reduces complications, simplifying device adjustments for a smoother experience for patients and healthcare providers.

### BUILT FOR LONG-TERM PERFORMANCE

Chemically inert and highly resilient, ePTFE won't degrade over time — making it perfect for long-term implants and grafts. Its durability reduces the need for replacement and minimizes the risk of complications.

### ENHANCED SAFETY & BIOCOMPATIBILITY

ePTFE offers a smooth surface that reduces blood clotting, ensuring optimal hemodynamics ideal for small-diameter vessels. Its unmatched biocompatibility minimizes immune response, reducing inflammation and rejection risks, making it perfect for long-term implants like vascular and stent grafts.

## What Sets Aptyx Apart

### COMPREHENSIVE ePTFE CONVERSION CAPABILITIES

At Aptyx, we transform ePTFE — whether extruded tubing, unsintered membrane, or sheets — into high-quality finished devices. Our comprehensive expertise ensures exceptional performance and quality for vascular, gastrointestinal, and implantable applications.

### COST-EFFECTIVE INNOVATION

Despite higher material costs, ePTFE's labor-efficient production process ensures cost-effectiveness, delivering greater value in overall production (COGS).

## For more information

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