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## Aeos™ ePTFE Porous Tubing

Perfect for applications that demand porosity,

flexibility, and strength, Aeos<sup>™</sup> ePTFE porous tubing products feature a unique structure of solid nodes

interconnected by a matrix of fibrils, achieved by expanding PTFE under controlled conditions.

Advanced extrusion and orientation techniques

enable Zeus to manipulate the spacing between these

microscopic structures, resulting in customizable

Alongside standard sized tubing, ultra-thin ePTFE

Sub-Lite-Wall<sup>™</sup> uniaxially oriented tubing and ePTFE

biaxially oriented tubing are both available. These products can enhance strength and flexibility, balance

elasticity, and provide a porous structure which can promote new tissue in-growth for accelerated healing.

This, combined with Aeos™ ePTFE's biocompatibility

and flexibility, mean Zeus tubing products are perfect for stent grafts or medical devices such as endoscopes.

microporous tubing tailored to your exact needs.

Expanded PTFE Porous Tubing



Zeus Aeos™ ePTFE customizable microporous tubing can be tailored to your exact needs.

#### **APPLICATIONS**

- Stent coverings
- Vascular devices
- Endoscopic channels
- Medical equipment

### **AVAILABLE PRODUCTS**

- Aeos<sup>™</sup> ePTFE standard tubing
- Aeos<sup>™</sup> ePTFE Sub-Lite-Wall<sup>™</sup> tubing
- Aeos™ ePTFE biaxially oriented tubing

## **CAPABILITIES**

Biaxially or uniaxially stretched

#### **KEY PROPERTIES**

- Microporous
- Highly customizable
- Biocompatible
- Chemically inert
- Lubricious
- Soft and flexible





CHEMICALLY INERT

BIOCOMPATIBILE



FLEXIBLE

# Aeos™ ePTFE Porous Tubing

All Aeos<sup>™</sup> ePTFE porous tubing products are produced based on customer specifications and the charts below are a general capability guide.

	Aeos™ ePTFE Tubing	Aeos™ ePTFE Sub-Lite-Wall™ Tubing	Aeos™ ePTFE Biaxial Oriented Tubing
AVAILABILITY	Customizable	Customizable	Customizable
SIZE CLASSIFICATION	Standard	Ultra-Thin	Ultra-Thin
ORIENTATION	Uniaxial	Uniaxial	Biaxial
DENSITY VALUE	Low To High (0.22 g/cm³ - 1.52 g/cm³)	Low To Moderate (0.22 g/cm³ - 1.09 g/cm³)	Low (0.22 g/cm³ - 0.65 g/cm³)
INTERNODAL DISTANCE (IND)	Low to High	Moderate to High	Moderate to High
	10 μm – 100 μm	30 µm – 100 µm	30 μm – 100 μm
POROSITY VALUE (%)	Low to High	Moderate to High	High
MICROSTRUCTURE - SEM IMAGE COMPARISON	More Uniform Unidirectional Pores 1000x	More Uniform Unidirectional Pores 1000x	More Tortuous Path - Reduced Permeability - Pore Size 1000x
INSIDE DIAMETER (ID) RANGE	0.005" - 1.250" (0.127 mm - 31.750 mm)	0.014" - 0.150" (0.356 mm - 3.810 mm)	0.050" - 1.000" (1.270 mm - 25.400 mm)
INSIDE DIAMETER (ID) TOLERANCE	± 0.005" (± 0.127 mm)	± 0.003" (± 0.076 mm)	± 0.010" (± 0.254 mm)
WALL THICKNESS	0.005" - 0.065" (0.127 mm - 1.651 mm)	0.002" - 0.0049" (0.051 mm - 0.1245 mm)	0.002" - 0.100" (0.051 mm - 2.540 mm)
WALL TOLERANCE	± 0.002" (± 0.051 mm)	± 0.0015" (± 0.0381 mm)	± 0.002" (± 0.051 mm)
APPLICATIONS	Stent Coverings, Vascular Devices, Endoscopic Channels, Medical Equipment		

Additional Specification Options		
POROSITY RANGE	DENSITY RANGE	
Low 30 - 50%	High 1.09 – 1.52 g/cm³ ± 0.15	
Medium 50 – 70%	Medium 0.65 - 1.09 g/cm³ ± 0.15	
High 70 - 90%	Low 0.22 - 0.65 g/cm³ ± 0.15	

