

Polyimide / PI Glide™ Tubing

Polyimide (PI) And High Lubricity PI Glide™

Overview-

Polyimide (PI) is a class of high performing thermoset polymers that include an imide linkage as their central identifying element. With a combination of mechanical toughness, thermal stability, and radiation and chemical resistance, Zeus PI tubing is well-suited for a wide variety of medical and industrial applications. When enhanced lubricity is required, PI Glide™, a PI/PTFE composite, provides up to 25% lower coefficient of friction over standard PI.

For medical applications, PI tubing's thin walls, lightweight construction, and tight tolerances make it ideally suited for a variety of minimally invasive devices. As an added bonus, Zeus PI tubing products help you adhere to REACH and EU MDR guidelines regarding SVHC/CMR restricted substances.*

For industrial uses, with its combination of high performing physical and mechanical properties, Zeus PI tubing is an ideal insulator for a variety of demanding applications. Zeus polyimide tubing is also available in a layered or composite construction using a combination of PI and PI Glide™ to suit a variety of tubing requirements.

**Our thorough analytical test results indicate that no SVHC/CMR restricted substances are intentionally included in Zeus-supplied polyimide products at levels above the 0.1% threshold outlined by REACH and EU MDR.*



TENSILE STRENGTH



CHEMICAL RESISTANCE



TEMPERATURE RESISTANCE



Zeus offers an extensive range of polyimide and PI Glide™ extrusions which are customizable in size, color, and level of lubriciousness.

APPLICATIONS

- Catheter delivery systems
- Vascular closure devices
- Lumen for guidewires
- Stone retrieval devices
- Puncture tools
- High temperature insulation
- Electrical & mechanical insulation

CAPABILITIES AND SIZING

- ID's 0.0045" to 0.090" (0.1143 to 2.286 mm)
- Nominal wall thicknesses from 0.0004" to 0.005" (0.0101 to 0.127 mm)
- Cut lengths up to 78" (1981.2 mm)
- Colors: Available in natural amber, green, red, and black

KEY PROPERTIES

- Class VI approved resins available
- Thermal stability
- High tensile strength
- Dielectric strength
- Chemical resistance
- Sterilizable



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Zeus polyimide tubing products are produced based on customer specifications and the chart below is a general capability guide.

POLYIMIDE TUBING	
Process	Film-Cast
Materials	Polyimide, PI Glide™
Inside Diameter (ID)	0.0045" to 0.090" 0.1143 mm to 2.286 mm
ID Tolerance +/-	0.0002" to 0.001" 0.0051 mm to 0.025 mm
Nominal Wall Thickness	0.0004" to 0.005" 0.0102 mm to 0.127 mm
Wall Tolerance +/-	± 25%
Cut Length	Up to 78" Max Up to 1981.2 mm
Surface Treatments	Tie Layer, Pebax®, Vestamid®
Colors	Natural, Amber, Green, Red, Black
Sterilization Methods	EtO, Gamma**, e-beam**

** Gamma and e-beam sterilization methods are not available with PI Glide™

