

# Reinforced Polyimide Tubing

Polyimide (PI) And High Lubricity PI Glide™

## Overview-

Polyimide (PI) is a class of high performing polymers well established in industry for their outstanding chemical, thermal, and mechanical performance properties. Polyimides also exhibit good dielectric properties giving them substantial presence in a number of electrical applications.

Zeus polyimide tubing brings these properties and more for both medical and non-medical precision tubing applications. Polyimide tubing provides excellent strength and abrasion resistance. Polyimide tubing also maintains its properties even at very small dimensions. For applications where additional lubricity is needed, PI Glide™, a PI / PTFE composite, provides a lower coefficient of friction for reduced surface resistance of the tubing.

For applications that require enhanced torque, flexibility, strength, pushability, kink resistance, or burst resistance, reinforced polyimide tubing is available. Zeus reinforced polyimide tubing can be produced in full load and half load braid patterns, with various PPI (pick per inch) depending on your specifications. Lower braid densities (low PPI) result in increased pushability, while higher braid densities (high PPI) result in increased flexibility and steerability. Reinforced polyimide tubing is also available in coil configurations with various WPI (wraps per inch) to meet your requirements.



BIOCOMPATIBLE



CHEMICAL RESISTANCE



TEMPERATURE RESISTANCE



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

## APPLICATIONS

- Catheters
  - Vascular
  - Structural heart
  - Electrophysiology
  - Urinary
- Lumen for guidewires
- Introducer sheaths
- Stone retrieval devices
- Puncture tools

## CAPABILITIES AND SIZING

- ID 0.010" – 0.070" (0.254 mm – 1.778 mm)
- Total wall thickness as low as 0.002" (0.051 mm)
- Cut lengths to 72" (1.83 m)
- Full load and half load braid patterns
- Clockwise and counter clockwise coiling
- Stainless Steel and Nitinol
- Flat and Round Wire
- 30 to 150 PPI/WPI
- Colors: Available in natural amber, green, red and black

## KEY PROPERTIES

- Enhanced Torque Transmission
- Increased Flexibility and Kink Resistance
- High Burst Pressure and Column Strength
- Thermal Stability

