

Polyimide (PI) Coated Wire

PI And High Lubricity PI Glide™ Coated Wire



Coated wire options vary depending on coating properties, application requirements, sizing, and desired colors.

Overview

Polyimide (PI) are a class of high performing polymers recognized for their outstanding mechanical, thermal, and chemical properties. Polyimides typically exhibit consistent properties through high and low temperatures and possess very good dielectric traits. These thermally stable polymers are biocompatible for use within the body and are sterilizable by several methods. Polyimides are also very resistant to abrasion and have very good wear characteristics.

Polyimide can be applied as a coating for over-the-wire (OTW; PI insulated wire) applications for both medical and non-medical uses. Polyimide provides a low friction surface for ease of pushability (deployment) of PI insulated lead wires and can be applied in extremely thin coatings. PI Glide™, a PI / PTFE composite, is an alternative for applications that require a more lubricious surface but do not require the performance of pure PTFE. PI and PI Glide™ coated wire are also available in a layered or composite construction allowing further customization of properties.



DIELECTRIC STRENGTH



CHEMICAL RESISTANCE



ABRASION RESISTANCE

Applications

- Coated lead wires
- Coated pull wires
- Release mandrels

Capabilities and Sizing

- Coatings as low as 0.0003" (0.0076 mm) thickness
- Can be applied to multiple wire types
 - o copper
 - o silver plated copper sub-bullets not necessary; can be omitted
 - o nitinol for space limitations
 - o stainless steel
- Cut lengths to 72" (1.83 m)
- Natural amber or dark colors
- Multi-layer construction

Key Properties

- Class VI biocompatibility
- Temperature tolerance to 428 °F (220 °C)
- High tensile strength
- Thermal stability
- Good dielectric properties
- Low surface friction
- Sterilizable

