Material Introduction

PI Glide™ Custom Coating

High Lubricity Polyimide (PI) / PTFE Composite

Overview-

Polyimide (PI) is a group of high performing polymers known for their exceptional chemical, thermal, and mechanical performance properties. These materials demonstrate exceptional thermal stability in high and low temperatures and are extremely flame resistant. PI Glide™, our PI / PTFE composite, is a high lubricity polyimide blend for applications that require lower surface friction yet do not require the performance of pure PTFE. PI Glide™ maintains broad chemical resistance and good dielectric properties in addition to its reduced coefficient of friction.

PI Glide™ is available in tubing and as a coating for over-the-wire (OTW, insulated wire) applications. For insulated wire, PI Glide™ provides a low-friction wire for easier deployment or insertion into tubing. With PI Glide™ tubing, inside diameters offer low resistance to inserted devices or tools (pushability) while the outside remains bondable without etching. PI Glide™ can also be produced in a layered composite construction with our conventional polyimide or with PI Glide™ alone. Composite layering polyimide and PI Glide™ allows users to further tailor polyimide tubing or coating properties.

PI Glide™ is available in many custom sizes and coating options.

APPLICATIONS

- Catheters
  - o Vascular
  - o Structural heart
  - o Electrophysiology
  - o Urinary
- Lumen for guidewires
- Lead wire delivery devices
- Insulated Wire

AVAILABLE PRODUCTS

- Tubing
- Pull wires
- Low-friction lead (insulated) wire
- Multi-layer construction

KEY PROPERTIES

- Class VI biocompatibility
- Lower coefficient of friction than PI
- Thermal stability
- Good dielectric properties
- UL 94 V-0 flammability
- Chemical resistance

BIOCOMPATIBILE

CHEMICAL RESISTANCE

TEMPERATURE RESISTANCE

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PI Glide™

High Lubricity Polyimide / PTFE Composite

PHYSICAL	ASTM	PI GLIDE™
Density (g/cm³)	ASTM D792	1.65
Radiation Resistance (MRad)		Very Good

MECHANICAL	ASTM	PI GLIDE™
Ultimate Tensile Strength (MPa)	ASTM D638	83
Elongation at Break (%)	ASTM D638	47
Coefficient of Friction	D1894	0.34

ELECTRICAL	ASTM	PI GLIDE™
Dielectric Constant 1 MHz	ASTM D150	3.0
Dielectric Strength (V/mil)	ASTM D149	4775

THERMAL	ASTM	PI GLIDE™
Decomposition Temp (°C)	AIR	431

The information presented in this publication is believed to be accurate and is not intended to constitute a specification. Property characteristics are dramatically impacted by geometry and processing method, thus properties of extruded parts may vary. In some instances, data may not be available for publication and will be notated as "na" where applicable. These tables are meant to serve as a general guideline only. Users should evaluate the material to determine suitability for their own particular application.