

Optinova PTFE Liner Tubing

Solutions for Medical Applications.



Etched OD PTFE liners are used as a lubricious inner layer in interventional delivery devices. Optinova offers reliable liners covering a size range from neurovascular to structural heart (0.5-12 mm) with excellent tensile strength and consistent etch quality for optimal yields and performance.

Over the wire (OTW) capability is also available for applications requiring extra thin walls and tight tolerances or spooling.



Key advantages

- **Durability:** Optinova Liners resist stretching and pull forces, ensuring durability during manufacturing and device use.
- **Consistency and Adhesion:** A proprietary closed-loop control system maintains consistent quality and a low contact angle surface for optimized adhesion.
- **Thin Wall Design:** Thin wall thickness allows for low-profile catheter shafts and optimal lumen size.
- **High Strength:** High-strength PTFE liners enhance pushability and tractability.

Applications

PTFE liners are commonly used as the inner layer in reflow interventional and other minimally invasive delivery devices such as:

- Stent delivery system
- Guide catheters
- Steerable sheaths
- Micro catheters
- Apsiraiton catheters

Technical specifications

Inner diameter range:	0.5- 12 mm (0.02"-0.47")
Tolerance:	+/- 0.0127 mm- 0.0254 mm (0.0005"- 0.001")
Wall thickness:	starting at 0.019 mm (0.00075")
Tolerance:	+/- 0.012 mm - 0.025 mm (+/- 0.0005"- +/- 0.001)
Length max:	3000 mm (118")

For more technical information, please contact us at our sales offices or visit our website: optinova.com/contacts

Medical-grade certifications



Low contact angles (less than 70° degrees) for optimal lamination.

We empower customers through highly reliable tubing solutions.



Properties

	PTFE
Working Temperature:	-250 C to 260 C -436 F to 500 F
Chemical Resistance:	Excellent
Flammability	UL 94 V0
Shelf Life	Infinite
Water Absorption:	>0,01%
Hardness:	D60
UV Resistance	Unaffected
Ozone Resistance	Unaffected
Steralization	EtO, Steam
Food-grade Materials	Available

Note: This table is only meant to serve as a reference and the values are not necessarily typical for any specification. Users should evaluate the material to determine the suitability for their own application.

About Us

Founded in 1971, Optinova is a world-leading extrusion partner for advanced medical and industrial tubing. With sales offices around the world and four extrusion plants in Finland, Thailand, and the US, we are serving partners from 50+ countries across industries.

Contact Us

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