Junkosha®
Enabling Technology Innovators

Junkosha Liner Tubing

Wrapped PTFE Liner



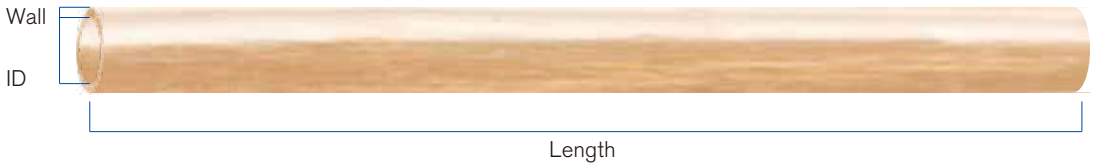
Junkosha Wrapped PTFE Liner is manufactured using advanced proprietary PTFE tape manufacturing and wrapping technologies that differ fundamentally from conventional film-cast, dispersion, and extrusion processes. Liner-level testing demonstrates that compared with our extruded PTFE liners, Junkosha Wrapped PTFE Liner delivers up to five times the tensile stress and twenty times the elastic modulus while maintaining a thinner wall profile. Wrapped PTFE Liner features a sodium-etched surface for excellent bondability and meets USP Class VI requirements.* Backed by patented high-strength technology, our Wrapped PTFE Liner combines exceptional strength, thin-wall performance, and design flexibility to support new possibilities in advanced catheter design and manufacturing.

- **Proprietary PTFE Technology:** Advanced PTFE tape manufacturing and wrapping technologies.
- **High Tensile Stress and Elastic Modulus:** Liner-level testing demonstrates up to 5× tensile stress and 20× elastic modulus compared with our extruded PTFE liners.
- **Thin-Wall Profile:** High strength with a thinner wall profile.
- **Excellent Bondability:** Sodium-etched surface provides excellent bondability.

*Test date: July-August 2026

Liner Size Capability

Imperial			Metric		
ID	Wall	Length	ID	Wall	Length
0.016-0.096"	0.00075"	39-78"	0.40-2.45 mm	19 µm	1,000-2,000 mm



Liner Applications

- Neuro catheter
- Micro catheter
- Balloon catheter
- EP/Ablation catheter

Patented Technologies

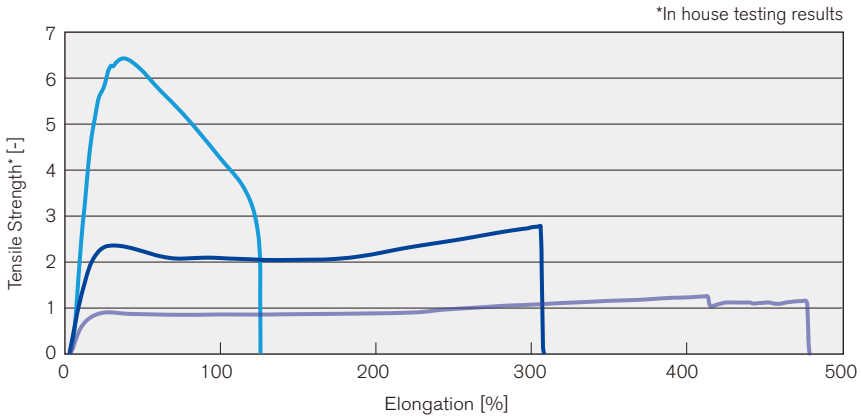
This product is protected by issued patents and pending patent applications.

Images have been digitally enhanced

Benefits

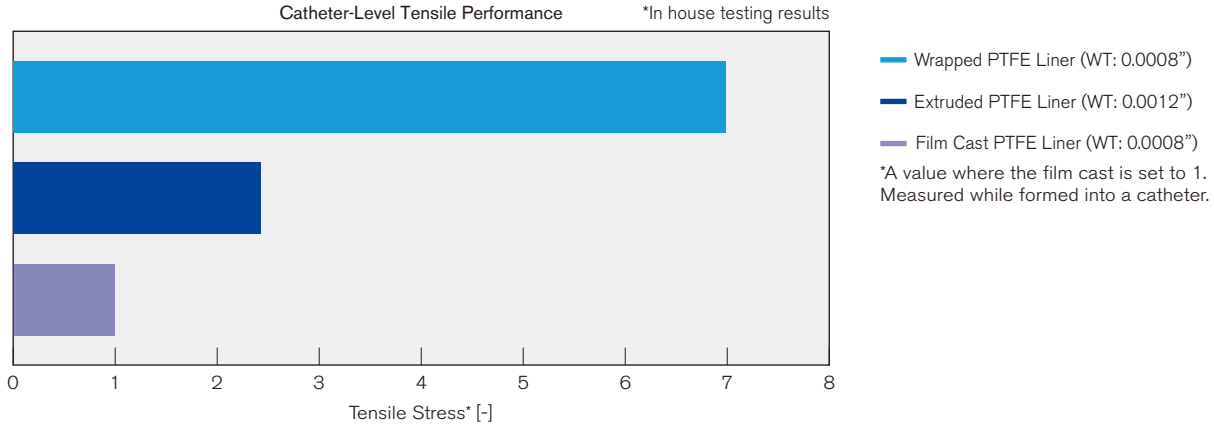
1 Greater Catheter Design Freedom

During device deployment, conventional liners may stretch, narrowing the inner diameter and increasing friction. The high tensile strength and elastic modulus of Junkosha Wrapped PTFE Liner, enabled by our unique tape manufacturing and wrapping technologies, help minimize elongation and maintain catheter structural integrity. This provides greater design freedom when selecting braid, coil, and outer jacket materials, supporting catheter designs for improved trackability and device delivery.



2 Smaller Profile. Larger Lumen.

Catheter designs require a balance between wall thickness, inner diameter, and outer diameter. Wrapped PTFE Liner combines a thin wall with tight wall thickness tolerance, allowing for a smaller outer diameter while maintaining the required inner diameter. Its precise inner diameter control also allows for a larger inner diameter within the same outer diameter, supporting improved access and delivery of larger devices.



3 Reduced Lamination Steps

Wrapped PTFE Liner is supplied on-mandrel, eliminating the lamination process typically required for conventional extruded PTFE liners. In suitable applications, this can reduce production time and manufacturing space while minimizing potential yield loss associated with the additional manufacturing step.

Junkosha Inc.
Tokyo Business Center
23F Ochanomizu Sola City
4-6 Kanda-Surugadai
Chiyoda-ku, Tokyo 101-0062
Japan
P +81 3 3518 6520

Junkosha USA Inc.
West Coast Office
2415 Campus Drive
Suite 140
Irvine, CA 92612
USA
P +1 949 825 6177

Junkosha USA Inc.
European Office
113 The Promenade
Cheltenham
GL50 1NW
UK
P +44 1242 248 703

Junkosha ATC Inc.
Bldg. 33 Export Processing Zone
Supporting Industrial Park
No. 666 Jianlin Road
Suzhou High-New District, Suzhou
Jiangsu P. R. China
P +86 512 6920 0218

www.junkosha.com
SH2610_01H-01