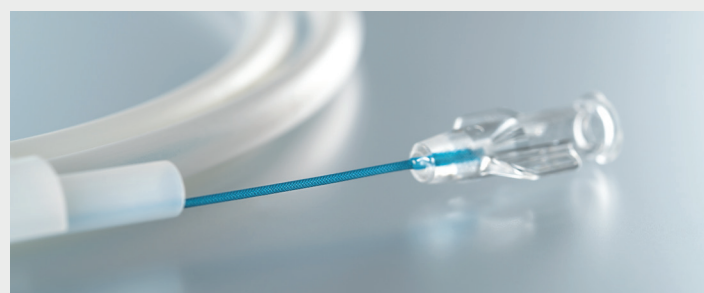


# StreamLiner™ Series

PTFE Sub-Lite-Wall™ StreamLiner™ XT and VT



*\*LoPro™ Technology features our proprietary technology and processing techniques that combine over 50 years of experience customizing our extrusion machines and state-of-the-art polymer manufacturing processes to achieve ultra-thin extruded components.*

## Overview

Our new PTFE Sub-Lite-Wall™ StreamLiner™ series is the latest breakthrough in our already best-in-class catheter liner wall thickness. The StreamLiner™ series was developed leveraging over 50 years of industry-leading experience in state-of-the-art polymer extrusion development and manufacturing. Sub-Lite-Wall™ tubing is our family of extremely thin walled extrusions with wall thicknesses 0.005" (0.127 mm) and below. This product line enables even greater advancements in catheter design aimed at improving patient care and clinical outcomes.

With our LoPro™ Technology\* and the thinnest walls in the industry, the Sub-Lite-Wall™ StreamLiner™ series allows engineers to increase the catheter lumen while also effectively lowering the overall profile of the device. What's more, as free extrusions, StreamLiner™ XT and VT afford a stronger and more robust catheter liner with reduced deployment force within the lumen compared to liners made using a film cast process.

Our PTFE StreamLiner™ series brings with it all of the same functional properties of its predecessors for seamless acceptance. These combined features enable device engineers to explore more advanced designs for microcatheters and endovascular delivery systems. These are exciting additions to our portfolio of designs for next-generation minimally invasive procedures.



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BIOCOMPATIBLE



CONTINUOUS SERVICE TEMP

## Applications

- *Catheter liners*
  - *Micro, Guiding, Support, Delivery, Diagnostic, Ablation, Angioplasty, Atherectomy, Intermediate*

## Capabilities and Sizing

- *XT = 0.00075" (0.01905 mm) max wall*
- *XT = ID 0.004" - 0.040"*
- *VT = 0.001" (0.025mm) max wall*
- *VT = ID 0.004" - 0.120"*
- *Etching (for enhanced bonding)*
  - *In-line OD etch, custom tip etch*

## Key Properties

- *Customizable mechanical properties*
  - *Tensile strength and elongation*
- *Thinnest extruded liners*
- *Highly lubricious*
- *Improved flexibility*
- *Working temperature ranges from -328 to 500 °F (-200 to 260 °C)*

## Ask Us About Tie Layer

*Zeus Tie Layer can be used to enhance bond strength between StreamLiner™ and the catheter jacket. Better bond strength equals better mechanical properties for the finished catheter device.*



# StreamLiner™ Series

## *PTFE Sub-Lite-Wall™ StreamLiner™ XT / VT*

Sizes are supplied in millimeters and inches. Please note StreamLiner™ series extension is dependant upon size ranges.

StreamLiner™ SERIES AVAILABLE SAMPLES									
SERIES ID	OPN	ID +/- 0.0005"	ID +/- 0.001"	ID +/- 0.0127	ID +/- 0.0254	MAX WALL	MAX WALL	CUT LENGTH	CUT LENGTH +5.08/-0
		in.		mm		in.	mm	in.	cm
XT	217526	0.017"		0.4318		0.00075"	0.01905	72"+2"/-0"	182.88
XT	217527	0.020"		0.508		0.00075"	0.01905	72"+2"/-0"	182.88
XT	217521	0.0245"		0.6223		0.00075"	0.01905	72"+2"/-0"	182.88
XT	217524	0.0305"		0.7747		0.00075"	0.01905	72"+2"/-0"	182.88
XT	217519	0.040"		1.016		0.00075"	0.01905	72"+2"/-0"	182.88
VT	221657	0.015"		0.381		0.001"	0.0254	72"+2"/-0"	182.88
VT	221655	0.020"		0.508		0.001"	0.0254	72"+2"/-0"	182.88
VT	221660	0.030"		0.762		0.001"	0.0254	72"+2"/-0"	152.4
VT	221642	0.035"		0.889		0.001"	0.0254	60"+2"/-0"	152.4
VT	221640	0.045"		1.143		0.001"	0.0254	60"+2"/-0"	152.4
VT	221661	0.050"		1.27		0.001"	0.0254	60"+2"/-0"	152.4
VT	221662	0.055"		1.397		0.001"	0.0254	60"+2"/-0"	152.4
VT	221652	0.060"		1.524		0.001"	0.0254	60"+2"/-0"	152.4
VT	221663	0.065"		1.651		0.001"	0.0254	60"+2"/-0"	152.4
VT	221665	0.075"		1.905		0.001"	0.0254	60"+2"/-0"	152.4
VT	221646	0.085"		2.159		0.001"	0.0254	60"+2"/-0"	152.4
VT	221651	0.095"		2.413		0.001"	0.0254	60"+2"/-0"	152.4
VT	221648	0.100"		2.54		0.001"	0.0254	60"+2"/-0"	152.4
VT	221634		0.105"		2.67	0.001"	0.0254	60"+2"/-0"	152.4
VT	221631		0.115"		2.92	0.001"	0.0254	60"+2"/-0"	152.4
VT	221629		0.120"		3.05	0.001"	0.0254	60"+2"/-0"	152.4