

# Sub-Lite-Wall®

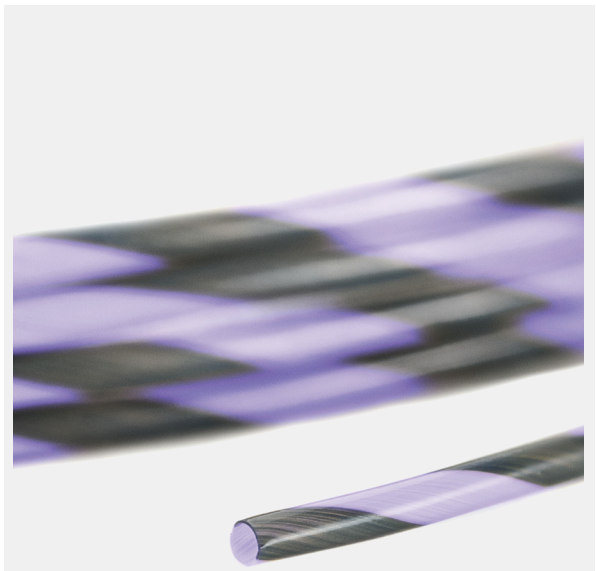
Ultra-Thin Dimension PTFE Heat Shrink Tubing

## Overview-

Zeus Sub-Lite-Wall® PTFE heat shrink tubing is our ultra-thin walled extrusion family with wall thicknesses 0.005" (0.127 mm) and below. This specialty heat shrink is engineered for applications that not only require thin walls but also a shrink-to-fit encapsulation protection. For this specialty heat shrink, we can even maintain wall thicknesses extending below 0.001" (0.025 mm) with tolerances of  $\pm 0.0005"$  (0.0127 mm). Our capabilities allow us to meet your most critical dimensional needs.

PTFE has an extremely low coefficient of friction making it especially desirable when needing to push covered components such as guidewires through tight fitting or occluded vessels. For medical applications, PTFE products are sterilizable by several options and are also biocompatible. PTFE's high working temperature also makes it a good option for covering sensors which may become hot during normal use.

This micro-dimensional heat shrink fills a critical need for our customers who are demanding ever-thinner walls for more specialized applications. This super-thin-walled heat shrink is highly customizable. Contact your Zeus representative to find out how we can tailor PTFE Sub-Lite-Wall® heat shrink for you.



*Zeus PTFE Sub-Lite-Wall® products are available with spiral coloring patterns to aid clinicians' visibility during medical procedures.*

## APPLICATIONS

- Guidewire encapsulation
- Batteries
- Endoscopy
- Sensors

## CAPABILITIES AND SIZING

- Etching available for bonding
- Extremely fine tolerances ( $\pm 0.0005"$  / 0.0127 mm)
- Customizable sizes
- Colors and striped colors available upon request

## KEY PROPERTIES

- Biocompatibility
- Broad working temperature -200 °C to 260 °C (-328 °F to 500 °F)
- Chemical resistance
- Sterilizable
- Excellent dielectric properties
- Very low coefficient of friction



COEFFICIENT OF FRICTION



CHEMICAL RESISTANCE



BIOCOMPATIBLE



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Sub-Lite-Wall® heat shrink is by custom order only. The recovered ID and wall thicknesses are uniform throughout and can be supplied with wall thicknesses extending below 0.001"  $\pm 0.0005$ " (0.025  $\pm 0.0127$  mm) on many sizes, with tolerances being customizable as well. Free sample are available by request.

The dimensions and tolerances shown below are a guide only. By contacting our team, you can write your own specifications for Sub-Lite-Wall® heat shrink to get the assurance that we can help meet your specifications.

HEAT SHRINK					
EXPANDED ID MIN.		RECOVERED ID MAX.		RECOVERED WALL THICKNESS	
in.	mm	in.	mm	in.	mm
0.0200	0.5080	0.0080	0.2032	0.0020	0.0508
0.0250	0.6350	0.0100	0.2540	0.0020	0.0508
0.0300	0.7620	0.0120	0.3048	0.0020	0.0508
0.0340	0.8636	0.0150	0.3810	0.0020	0.0508
0.0380	0.9652	0.0180	0.4572	0.0020	0.0508
0.0460	1.1684	0.0220	0.5588	0.0020	0.0508
0.0500	1.2700	0.0270	0.6858	0.0020	0.0508
0.0550	1.3970	0.0320	0.8128	0.0020	0.0508
0.0600	1.5240	0.0390	0.9906	0.0020	0.0508
0.0760	1.9304	0.0490	1.2446	0.0020	0.0508
0.0930	2.3622	0.0610	1.5494	0.0020	0.0508
0.1200	3.0480	0.0720	1.8288	0.0020	0.0508
0.1500	3.8100	0.0890	2.2606	0.0020	0.0508
0.1910	4.8514	0.1120	2.8448	0.0020	0.0508
0.2400	6.0960	0.1410	3.5814	0.0025	0.0635

