

# TFX OEM<sup>®</sup> HEAT-SHRINK TUBING

FEP and PTFE

## AT A GLANCE

- Teleflex Medical OEM produces some of the thinnest wall, microbore, heat-shrink tubing available in the industry.
- Surface etching is available.
- Heat-shrink tubing is available in custom sizes, lengths, and colors. Contact Teleflex Medical OEM for additional information.

## SIZE INFORMATION

FEP	PTFE
Shrink ratios to 1.65:1. Recovered IDs range from 0.024" to 0.200" (0.51mm to 5.10mm). Maximum 15% linear shrinkage.	Shrink ratios to 4:1. Recovered IDs down to 0.003" (0.13mm).

## PROPERTIES OF FEP AND PTFE

- High dielectric strength
- Excellent surface lubricity
- Chemical inertness
- Water resistance

## APPLICATIONS

- Guidewire jacketing
- Coating for surgical instruments
- Dielectric insulation
- Covering for components
- Waterproofing
- Abrasion/corrosion protection
- Reflow bonding

## SIZES

- Minimum expanded ID: .002" (0.051mm) larger than maximum core diameter.
- Maximum recovered ID: .003" (0.076mm) smaller than minimum core diameter.
- Wall thickness +/- .001" (0.025mm) when over the nominal core.
- Teleflex Medical OEM can minimize lengthwise shrinkage at recovery.



Spiral heat-shrink tubing is also available. Contact Teleflex Medical OEM for additional information.

## TYPICAL EXPANSION RATIOS FOR PTFE TUBING

Expansion Ratio	Recovered ID		Recovered Wall Thickness	
	inch	mm	inch	mm
2:1	.003 - .030	0.076 - 0.760	.0015	0.038
	.031 - .050	0.787 - 1.270	.0025	0.064
	.051 - .075	1.295 - 1.905	.004	0.102
3:1	.003 - .020	0.076 - 0.508	.0015	0.038
	.021 - .040	0.533 - 1.016	.0025	0.064
	.041 - .065	1.041 - 1.65	.004	0.102
4:1	.003 - .009	0.076 - 0.229	.0015	0.038
	.010 - .015	0.254 - 0.381	.0025	0.064
	.015 - .020	0.381 - 0.508	.004	0.102

## RECOVERY TEMPERATURE REQUIREMENTS

FEP	PTFE
FEP heat-shrinkable tubing requires a temperature of 375°F +/- 4°F (191°C +/- 2°C) for 10 minutes unrestricted per MIL-I-23053/11B.	PTFE heat-shrinkable tubing requires a temperature of 662°F +/- 8°F (350°C +/- 4°C) for 10 minutes unrestricted per MIL-I-23053/12A.

Please note: The actual temperature and time depends on tubing size and application.

### PARTNER WITH TELEFLEX MEDICAL OEM

You need to develop and manufacture a new product but have limited internal resources. Teleflex Medical OEM is ready to help. We have the decades of experience, deep expertise, and comprehensive resources to take your project from concept to completion.

Whether you need extrusion or a finished medical device, Teleflex Medical OEM should be your product development, and production partner. Along with our “can-do” attitude, we offer engineering expertise, fully vertically integrated prototyping and manufacturing capabilities, and a dedication to customer service.

### TFX OEM® CONTACT

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