

# FluoroPEELZ™

Peelable Heat Shrink

## Overview-

Catheter construction is a delicate process that leaves no room for error. The last step of removing the recovered heat shrink from over the outer catheter shaft is often the most critical and laborious. FluoroPEELZ™ brings simplicity to this complex process and makes the final step quicker, easier, and safer! With a simple linear tear, operators can quickly and evenly peel the heat shrink away from the recovered shaft. FluoroPEELZ™ excels in neurovascular and other critical small diameter catheter applications used over low durometer jackets such as Pebax® and nylons.

Medical device customers using FluoroPEELZ™ have reported reduced downstream processing, increased yields, and minimal waste. Furthermore, because we are a pioneer in clear peelable heat shrink, users can visually inspect catheter construction after the reflow process; this eliminates guesswork and speeds up production. FluoroPEELZ™ even improves safety as it eliminates the need for razor blades during the skiving process, supporting superior reflow and producing a catheter with a smooth surface finish that is free of imperfections. FluoroPEELZ™ is available with shrink ratios up to 2:1 and be used for catheter sizes as small as 2 F up to 34 F. FluoroPEELZ™ can also be manufactured in a non-heat shrink form for use in introducer and packaging applications.



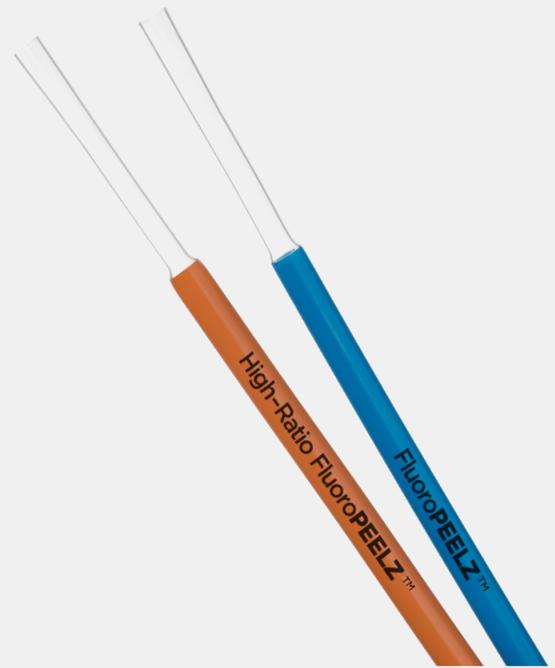
COEFFICIENT OF FRICTION



OPTICAL CLARITY



CHEMICAL RESISTANCE



*FluoroPEELZ™ brings simplicity to catheter construction saving both time and money.*

## APPLICATIONS

- Catheter lamination
- Balloon tacking
- Tube bonding
- Tube forming

## CAPABILITIES AND SIZING

- Recovered IDs to 0.010" (0.254 mm)
- Custom heat shrink with ratios up to 2:1
- Colors available
- Samples available upon request

## KEY PROPERTIES

- Working temperature to 200 °C (392 °F)
- Class VI approved resins available
- Smooth catheter surface finish
- Visual inspection after reflow
- Peelable
- Reduces downstream processing
- Promotes production safety
- Recovery temperature of 215 °C ± 10 C° (420 °F ± 18 F°)



# FluoroPEELZ™

FluoroPEELZ™ parts without colorants or additives have been tested for biocompatibility. USP Class VI, ANSI/AAMI/ISO 10993-4, and ANSI/AAMI/ISO 10993-5 information is available upon request. A letter of confirmation of compliance to these standards is available through your account manager.

Typical FluoroPEELZ™ size ranges are listed below. Contact us to discuss custom sizes, lengths, and shrink ratios. Zeus can pre-slit the ends for increased efficiency FluoroPEELZ™ peelable heat shrink is also available in black translucent for use with laser based recovery methods.

## FLUOROPEELZ™ TYPICAL SIZE RANGES

SHRINK RATIO	EXPANDED ID	RECOVERED ID	WALL THICKNESS	WALL THICKNESS TOLERANCE
1.3:1	0.015" - 0.500" (0.381 mm - 12.7 mm)	0.012" - 0.385" (0.305 mm - 9.779 mm)	0.008" - 0.013" (0.203 mm - 0.330 mm)	± 0.002" (± 0.051 mm)
1.4:1	0.015" - 0.500" (0.381 mm - 12.7 mm)	0.011" - 0.358" (0.279 mm - 9.093 mm)	0.009" - 0.013" (0.229 mm - 0.330 mm)	± 0.002" (± 0.051 mm)
1.5:1	0.015" - 0.500" (0.381 mm - 12.7 mm)	0.010" - 0.334" (0.254 mm - 8.484 mm)	0.010" - 0.014" (0.254 mm - 0.356 mm)	± 0.002" (± 0.051 mm)
1.6:1	0.016" - 0.500" (0.406 mm - 12.7 mm)	0.010" - 0.313" (0.254 mm - 7.950 mm)	0.010" - 0.018" (0.254 mm - 0.457 mm)	± 0.002" (± 0.051 mm)
1.7:1	0.017" - 0.500" (0.432 mm - 12.7 mm)	0.010" - 0.295" (0.254 mm - 7.493 mm)	0.010" - 0.018" (0.254 mm - 0.457 mm)	± 0.002" (± 0.051 mm)
1.8:1	0.030" - 0.500" (0.762 mm - 12.7 mm)	0.017" - 0.278" (0.432 mm - 7.061 mm)	0.013" - 0.018" (0.254 mm - 0.457 mm)	± 0.002" (± 0.051 mm)
1.9:1	0.032" - 0.500" (0.813 mm - 12.7 mm)	0.017" - 0.264" (0.432 mm - 6.706 mm)	0.013" - 0.018" (0.330 mm - 0.457 mm)	± 0.002" (± 0.051 mm)
2.0:1	0.034" - 0.500" (0.864 mm - 12.7 mm)	0.017" - 0.250" (0.432 mm - 6.35 mm)	0.013" - 0.018" (0.330 mm - 0.457 mm)	± 0.002" (± 0.051 mm)

## HEAT SHRINK PROPERTIES

WORKING TEMP.	SHRINK RATIOS	RECOVERY TEMP.*	SPECIAL FEATURES	APPLICATIONS
200 °C / 392 °F	Up to 2:1	215 °C / 420 °F ± 10 °C / 18 °F	<ul style="list-style-type: none"> <li>• Peelable</li> <li>• Clear</li> <li>• Class VI approved resins available</li> </ul>	<ul style="list-style-type: none"> <li>• Catheter manufacturing</li> <li>• Packaging</li> <li>• Manufacturing aids</li> </ul>

\*We recommend beginning the recovery process at 215 °C (420 °F). Anticipate adjusting this temperature in 10 °C (18 °F) increments, upward or downward, until desired recovery characteristics are achieved.

