

# FluoroPEELZ<sup>®</sup>

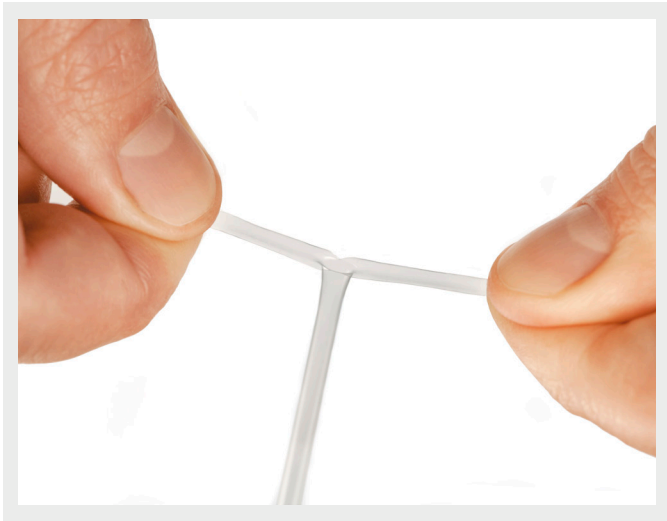


Peelable Heat Shrink

## 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<sup>®</sup> brings simplicity to this complex process. With FluoroPEELZ<sup>®</sup>, the final step becomes quick, easy, and safer! With a simple linear tear, operators can quickly and evenly peel away FluoroPEELZ<sup>®</sup> from the recovered shaft. FluoroPEELZ<sup>®</sup> excels in neurovascular and other critical small diameter catheter applications used over low durometer jackets such as Pebax<sup>®</sup> and nylons.

Medical device customers using FluoroPEELZ<sup>®</sup> have reported reduced downstream processing, increased yields, and minimal waste. Furthermore, because FluoroPEELZ<sup>®</sup> is the most optically clear and peelable heat shrink available, users can visually inspect catheter construction after the reflow process; this eliminates guesswork and speeds production. Incorporating FluoroPEELZ<sup>®</sup> improves safety as it eliminates the need for razor blades during the skiving process. FluoroPEELZ<sup>®</sup> superior reflow ability produces a catheter with a smooth surface finish that is free of imperfections. FluoroPEELZ<sup>®</sup> is available with shrink ratios up to 1.65:1. FluoroPEELZ<sup>®</sup> can support catheter sizes as small as 2F - 34F. FluoroPEELZ<sup>®</sup> can also be manufactured in a non-heat shrink form for use in introducer and packaging applications.



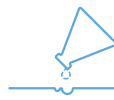
*FluoroPEELZ<sup>®</sup> brings simplicity to catheter construction saving both time and money.*



COEFFICIENT OF FRICTION



BIOCOMPATIBLE



CHEMICAL RESISTANCE

### APPLICATIONS

- Catheter construction
- Balloon tacking
- Balloon and stent protectors (packaging)
- Introducers

### CAPABILITIES AND SIZING

- Recovered IDs to 0.020" (0.51 mm) with smaller IDs possible
- Custom heat shrink with ratios up to 1.65:1
- Colors available
- Samples available upon request

### KEY PROPERTIES

- Operating temperature of 400 °F / 204 °C
- USP Class VI approved
- Smooth catheter surface finish
- Visual inspection after reflow
- Peelable
- Reduces downstream processing
- Improves production safety
- Recovery temperature of 420 °F ± 18 °F (215 °C ± 10 °C)



# FluoroPEELZ®

Peelable Heat Shrink

## INFORMATION OF NOTE

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.

AVAILABLE SAMPLES										
Item	Color	Expanded ID		Recovered ID		Recovered Wall		Cut Length		Shrink Ratio
		in.	mm	in.	mm	in.	mm	in.	mm	
187074	Clear	0.029	0.737	0.022	0.559	0.008 ± 0.002	0.203 ± 0.051	48 ± 2	1219.2 ± 51	1.3
188033	Clear	0.042	1.067	0.030	0.762	0.008 ± 0.002	0.203 ± 0.051	48 ± 2	1219.2 ± 51	1.4
184331	Clear	0.050	1.270	0.036	0.914	0.008 ± 0.002	0.203 ± 0.051	48 ± 2	1219.2 ± 51	1.4
188699	Clear	0.077	1.956	0.055	1.397	0.008 ± 0.002	0.203 ± 0.051	48 ± 2	1219.2 ± 51	1.4
184172	Clear	0.089	2.261	0.063	1.600	0.008 ± 0.002	0.203 ± 0.051	48 ± 2	1219.2 ± 51	1.4
188694	Clear	0.100	2.540	0.071	1.803	0.008 ± 0.002	0.203 ± 0.051	48 ± 2	1219.2 ± 51	1.4
188704	Clear	0.114	2.896	0.082	2.083	0.008 ± 0.002	0.203 ± 0.051	48 ± 2	1219.2 ± 51	1.4
188026	Clear	0.131	3.327	0.094	2.388	0.008 ± 0.002	0.203 ± 0.051	48 ± 2	1219.2 ± 51	1.4
194749	Clear	0.175	4.445	0.110	2.794	0.010 ± 0.002	0.254 ± 0.051	48 ± 2	1219.2 ± 51	1.6
196685	Clear	0.188	4.775	0.115	2.921	0.010 ± 0.002	0.254 ± 0.051	48 ± 2	1219.2 ± 51	1.6
183644	Clear	0.238	6.045	0.170	4.318	0.011 ± 0.004	0.279 ± 0.102	48 ± 2	1219.2 ± 51	1.4
55236	Black translucent	0.028	0.711	0.020	0.508	0.008 ± 0.004	0.203 ± 0.102	12 +1/-0	305 + 25/-0	1.4
55241	Black translucent	0.035	0.889	0.025	0.635	0.008 ± 0.004	0.203 ± 0.102	12 ± 1	305 ± 25	1.4
55246	Black translucent	0.042	1.067	0.030	0.762	0.008 ± 0.004	0.203 ± 0.102	12 ± 1	305 ± 25	1.4
55243	Black translucent	0.050	1.270	0.034	0.864	0.008 ± 0.004	0.203 ± 0.102	12 ± 1	305 ± 25	1.5

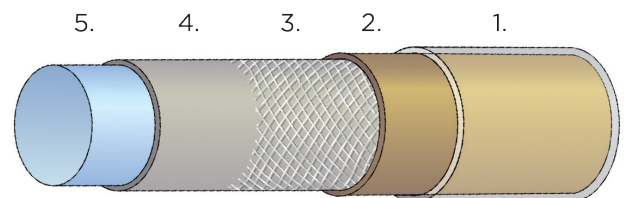
Available in custom sizes with shrink ratios up to 1.65:1.

HEAT SHRINK PROPERTIES	
Operating Temperature	200 °C / 400 °F
Shrink Ratios	Up to 1.65:1
Recovery Temperature*	215 °C / 420 °F ± 10 °C / 18 °F
Special Features	<ul style="list-style-type: none"> <li>• Peelable</li> <li>• Clear</li> <li>• USP Class VI</li> </ul>
Applications	<ul style="list-style-type: none"> <li>• Catheter manufacturing</li> <li>• Packaging</li> <li>• Catheter manufacturing aids</li> </ul>

HEAT SHRINK RATIOS		
Recovered ID Range		Ratio
in.	mm	
0.165 and above	4.191 and above	1.65
0.045 - 0.164	1.143 - 4.166	1.60
0.030 - 0.044	0.762 - 1.118	1.55
0.020 - 0.029	0.508 - 0.737	1.45

Microcatheter sizes of less than 0.020" (0.508") recovered ID may be possible with these ratios. Contact your sales representative to learn more.

FluoroPEELZ® is comprised of 100% fluoropolymer. FluoroPEELZ® parts without colorants or additives have been tested for biocompatibility in accordance with USP Class VI, ANSI/AAMI/ISO 10993-4, and ANSI/AAMI/ISO 10993-5 guidelines. A letter of confirmation of compliance to these standards is available through your Sales Representative.



1. FluoroPEELZ® 2. Pebax® / Nylon Jacket 3. LCP Monofilament  
4. PTFE Sub-Lite-Wall® Liner 5. PTFE Mandrel