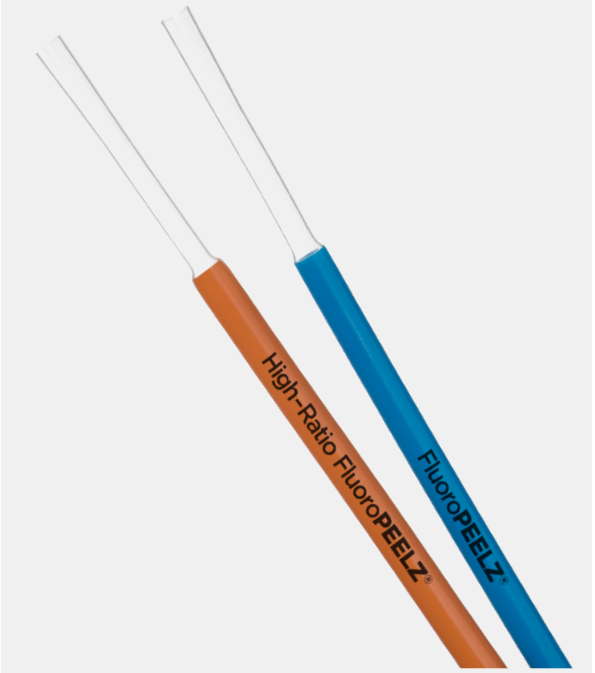
Heat Shrink Products

FluoroPEELZ®

Peelable Heat Shrink

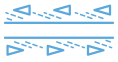


FluoroPEELZ® brings simplicity to catheter construction saving both time and money.

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 nonheat shrink form for use in introducer and packaging applications.



COEFFICIENT OF FRICTION

BIOCOMPATIBILE

CHEMICAL RESISTANCE

APPLICATIONS

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

CAPABILITIES AND SIZING

- Recovered IDs to 0.015” (0.38 mm) with smaller IDs possible
- Custom heat shrink with ratios up to 2:1
- Colors available
- Samples available upon request

KEY PROPERTIES

- Operating temperature of 204 °C / 400 °F
- USP Class VI approved
- 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°)

ZEUS

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FluoroPEELZ®

FluoroPEELZ® is comprised of 100% fluoropolymer. 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 account manager.

AVAILABLE SAMPLES

ITEM	COLOR	EXPANDED ID		RECOVERED ID		RECOVERED WALL		CUT LENGTH		SHRINK RATIO
		in.	mm	in.	mm	in.	mm	in.	mm	
209380	Clear	0.025	0.635	0.019	0.483	0.01 ± 0.002	0.254 ± 0.051	5 ± 1	127 ± 25	1.3:1
187074	Clear	0.029	0.737	0.022	0.559	0.008 ± 0.002	0.203 ± 0.051	48 ± 2	1219.2 ± 51	1.3:1
188033	Clear	0.042	1.067	0.030	0.762	0.008 ± 0.002	0.203 ± 0.051	48 ± 2	1219.2 ± 51	1.4:1
184331	Clear	0.050	1.270	0.036	0.914	0.008 ± 0.002	0.203 ± 0.051	48 ± 2	1219.2 ± 51	1.4:1
188699	Clear	0.077	1.956	0.055	1.397	0.008 ± 0.002	0.203 ± 0.051	48 ± 2	1219.2 ± 51	1.4:1
184172	Clear	0.089	2.261	0.063	1.600	0.008 ± 0.002	0.203 ± 0.051	48 ± 2	1219.2 ± 51	1.4:1
188694	Clear	0.100	2.540	0.071	1.803	0.008 ± 0.002	0.203 ± 0.051	48 ± 2	1219.2 ± 51	1.4:1
188704	Clear	0.114	2.896	0.082	2.083	0.008 ± 0.002	0.203 ± 0.051	48 ± 2	1219.2 ± 51	1.4:1
188026	Clear	0.131	3.327	0.094	2.388	0.008 ± 0.002	0.203 ± 0.051	48 ± 2	1219.2 ± 51	1.4:1
194749	Clear	0.175	4.445	0.110	2.794	0.010 ± 0.002	0.254 ± 0.051	48 ± 2	1219.2 ± 51	1.6:1
196685	Clear	0.188	4.775	0.115	2.921	0.010 ± 0.002	0.254 ± 0.051	48 ± 2	1219.2 ± 51	1.6:1
194639	Clear	0.195	4.953	0.121	3.073	0.01 ± 0.002	0.254 ± 0.051	48 ± 2	1219.2 ± 51	1.6:1
183644	Clear	0.238	6.045	0.170	4.318	0.011 ± 0.004	0.279 ± 0.102	48 ± 2	1219.2 ± 51	1.4:1
206443	Black	0.028	0.711	0.020	0.508	0.008 ± 0.004	0.203 ± 0.102	12 ± 1	305 ± 25	1.4:1
212880	Black	0.035	0.889	0.025	0.635	0.008 ± 0.004	0.203 ± 0.102	12 ± 1	305 ± 25	1.4:1
212876	Black	0.042	1.067	0.030	0.762	0.008 ± 0.004	0.203 ± 0.102	12 ± 1	305 ± 25	1.4:1
212872	Black	0.050	1.270	0.034	0.864	0.008 ± 0.004	0.203 ± 0.102	12 ± 1	305 ± 25	1.5:1
246458	Clear	0.030	0.762	0.015	0.381	0.01 ± 0.002	0.254 ± 0.051	60 ± 2	1524 ± 51	2:1
251785	Clear	0.036	0.914	0.018	0.457	0.01 ± 0.002	0.254 ± 0.051	12 ± 1	305 ± 25	2:1
251661	Clear	0.044	1.118	0.022	0.559	0.01 ± 0.002	0.254 ± 0.051	60 ± 2	1524 ± 51	2:1
251773	Clear	0.054	1.372	0.027	0.686	0.01 ± 0.002	0.203 ± 0.102	60 ± 2	1524 ± 51	2:1
246976	Clear	0.075	1.905	0.038	0.965	0.01 ± 0.002	0.254 ± 0.051	60 ± 2	1524 ± 51	2:1
251776	Clear	0.082	2.083	0.041	1.041	0.01 ± 0.002	0.203 ± 0.102	60 ± 2	1524 ± 51	2:1
246973	Clear	0.100	2.540	0.050	1.270	0.01 ± 0.002	0.254 ± 0.051	60 ± 2	1524 ± 51	2:1
246913	Clear	0.120	3.048	0.060	1.524	0.01 ± 0.002	0.254 ± 0.051	60 ± 2	1524 ± 51	2:1
251779	Clear	0.142	3.607	0.071	1.803	0.01 ± 0.002	0.254 ± 0.051	60 ± 2	1524 ± 51	2:1
246896	Clear	0.150	3.810	0.075	1.905	0.01 ± 0.002	0.254 ± 0.051	60 ± 2	1524 ± 51	2:1

Available in custom sizes with shrink ratios up to 2:1.

HEAT SHRINK PROPERTIES

OPERATING TEMP.	SHRINK RATIOS	RECOVERY TEMPERATURE*	SPECIAL FEATURES	APPLICATIONS
204 °C / 400 °F	Up to 2:1	215 °C / 420 °F ± 10 C° / 18 F°	• Peelable • Clear • USP Class VI	• Catheter manufacturing • Packaging • Manufacturing aids

**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.*