

PTFE Monofilament

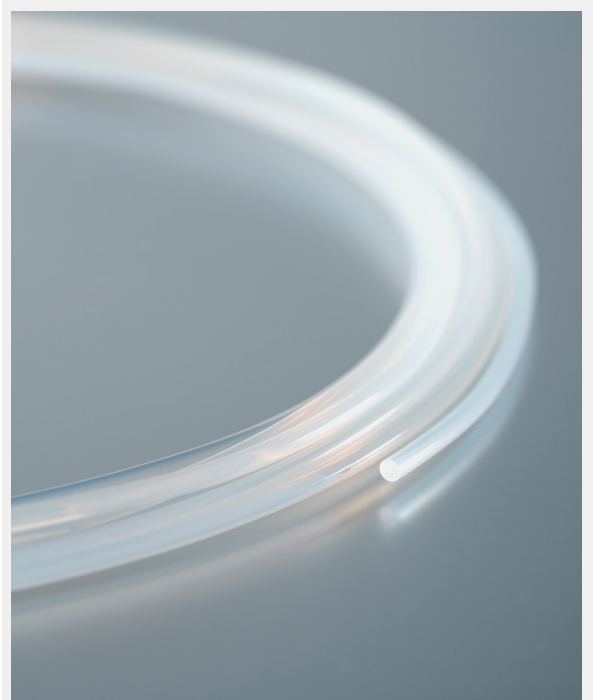
Natural And Glass-Filled Extrusions

Overview-

PTFE's properties have made it a highly popular polymer for many advanced, non-commoditized applications. When extruded, PTFE monofilament is frequently used as a space filler inside cables due to its insulation qualities, chemical inertness, and broad temperature tolerance. For manufacturing processes requiring higher compressive strength than native PTFE monofilament, Zeus can extrude PTFE monofilament compounded with glass.

Glass filled PTFE monofilament is ideal for use as mandrels for catheter construction and is the perfect replacement for stainless steel mandrels. With added compressive strength, PTFE glass-filled monofilament mandrels stand up to the high temperatures needed for catheter construction and the jacket reflow process yet are easily removed after this final step.

Zeus offers both standard and custom sizes with samples available at no charge to build prototypes.



PTFE glass-filled monofilament can be used as mandrels and is often used as a manufacturing aid for its higher compressive strength.

APPLICATIONS

- Catheter manufacturing aid
- Replacement for stainless steel or other metal mandrels
- Space filler inside cables

CAPABILITIES AND SIZING

- Standard sizes from 0.028" to 0.150" (0.71 to 3.81 mm)
- Custom sizes available upon request

KEY PROPERTIES

- Lubricity
- Smooth surface finish
- Higher compressive strength (glass-filled) than regular PTFE monofilament
- Working temperature to 260 °C (500 °F)
- Chemical resistance
- Excellent insulating properties



COEFFICIENT OF FRICTION



CHEMICAL RESISTANCE



HARDNESS



PTFE Monofilament

Supplied in natural color unless otherwise specified. Custom Pantone® colors or Zeus standard colors available on request. Lot to lot testing is also available upon request.

PTFE MONOFILAMENT			
ORDERED BY DIAMETER		TOLERANCES (±)	
in.	mm	in.	mm
0.028	0.711	0.002	0.051
0.031	0.787	0.002	0.051
0.035	0.889	0.002	0.051
0.039	0.991	0.002	0.051
0.047	1.194	0.002	0.051
0.050	1.270	0.002	0.051
0.055	1.397	0.003	0.051
0.062	1.575	0.003	0.051
0.070	1.778	0.003	0.051
0.078	1.981	0.004	0.076
0.094	2.388	0.004	0.076
0.100	2.540	0.004	0.076
0.109	2.769	0.004	0.076
0.125	3.175	0.004	0.076
0.150	3.810	0.004	0.076

