

FILM CAST LINER PTFE Tubing

When your catheter assembly needs a lubricious inner layer, a PTFE liner is the ideal choice. But not all PTFE liner tubing is the same. We supply etched PTFE liners on solid, silver-plated, copper-core mandrels, which give you the advantage of having thinner walls and time savings.

ADVANTAGES OF OUR PTFE LINER TUBING

- **Thinner walls**

Our PTFE liners on mandrels are fabricated with a film-cast process similar to what we use for our polyimide tubing. Ultrathin liner tubing (as thin as 0.0005" or 0.0127 mm) allows you to design thinner catheter walls.

- **Time savings**

Sourcing PTFE liners on mandrels means you don't have to stretch the liner onto another mandrel. This streamlines the assembly process and also allows you to:

- Maintain precise IDs
- Reduce risk of adhesion issues

STRIKE LAYER BOOSTS ADHESION

Our PTFE liners on mandrels can be fabricated with a microthin thermoplastic outer layer to enhance adhesion. This "strike layer" adds up to 60% more bond strength between the etched PTFE surface and the catheter assembly. Strike layers as thin as 0.0003" (0.0076 mm) are available in a wide range of thermoplastic materials, including:

- Nylon (11 and 12)
- Pebax® (55D, 70D and 72D)
- Polyurethane (Tecoflex®)

FILM CAST LINER PTFE Tubing

STOCK AND CUSTOM OPTIONS

Need liner tubing fast? We offer select configurations of etched PTFE liners on mandrels in our Online Store, in stock and ready to ship within 24 hours. A full range of options is available on a custom basis. Contact us to discuss your PTFE liner needs.

PROPERTIES OF PTFE

PTFE (polytetrafluoroethylene) has the lowest coefficient of friction of any polymer, making it a popular choice for catheter applications that require lubricity. It also features:

- Temperature and chemical resistance
- Biocompatibility
- Precise tolerances
- High dielectric strength
- Excellent insulative properties

PTFE LINER TUBING SPECIFICATIONS

<u>Inner Diameter (ID) Range</u>	0.014"–0.096" (0.356 mm–2.438 mm)
<u>Outer Diameter (OD) Range</u>	0.015"–0.099" (0.381 mm–2.515 mm)
<u>Wall Thickness</u>	0.0005"–0.003" (0.0127 mm–0.0762 mm)
<u>Length</u>	Custom cut or continuous-spooled lengths also available
<u>Strike Layer Thickness</u>	As thin as 0.0003" (0.0076 mm)
<u>Strike Layer Materials</u>	Nylon (11 and 12) Pebax® (55D, 70D and 72D) Polyurethane (Tecoflex®)