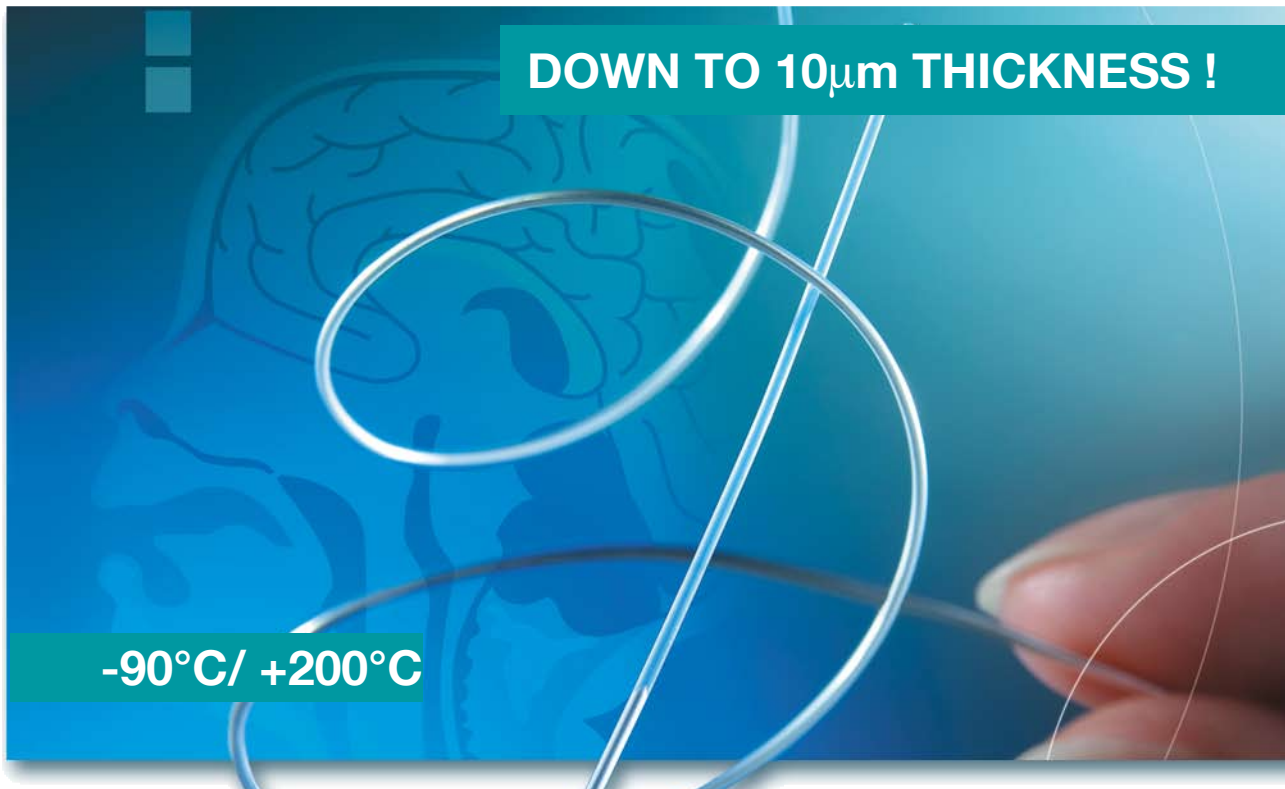


Miniature PTFE tubing for medical microcatheter

MAIN ADVANTAGES

> Ultra thin PTFE tubes with 10µm thickness.
> Biocompatible.
> Antimicrobial and anti-thrombogenic characteristics. due to hydrophobic properties.
> Ultra smooth and auto lubricant surface for an easy insertion of surgical tools.
> Stiff tube for precise maneuverability by the surgeon.
> Radio opaque for easy locating under x-ray (optional - please consult us)

GENERAL CHARACTERISTICS

> PFOA free (*)
> Temperature range : -90°C/+200°C
> Semi finished product : PTFE micro tubes are designed to be reinforced by a braided or a wound conductor.
> Delivered in long lengths on a silver plated copper conductor (other conductor on request) and on spools.
> Flexible solution : a thermoplastic layer can easily be processed by co-extrusion to obtain the catheter which then can be cut-to-length.
> Available with a high bondability coating (see next page).

(*) PFOA is suspected to have a risk profile similar to PFOS and may be banned in a few years.
AXON' has anticipated this ban and qualified a new range of environmentally and health-friendly resins free of PFOA.

APPLICATIONS

> Intracerebral catheters (to treat intracranial aneurism).
> Fluid sampling or fluid transportation.

www.axon-cable.com

axon' CABLE & INTERCONNECT

PTFE tubing
for medical microcatheters

PTFE tubing

TECHNICAL CHARACTERISTICS

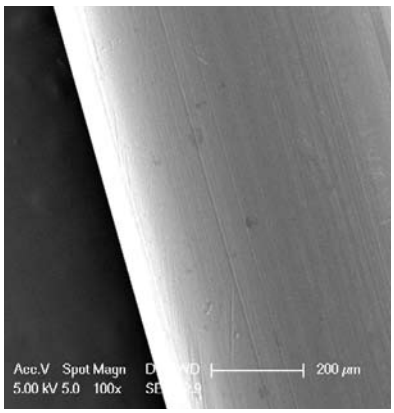
NOMINAL INNER DIAMETER (mm)	NOMINAL OUTER DIAMETER (mm)	THICKNESS (± 0.005mm)
0.430	0.450	0.010
0.530	0.550	0.010
0.615	0.635	0.010
0.735	0.755	0.010
0.750	0.770	0.010
0.830	0.850	0.010
0.430	0.470	0.020
0.530	0.570	0.020
0.615	0.655	0.020
0.735	0.775	0.020
0.750	0.790	0.020
0.830	0.870	0.020
0.430	0.490	0.030
0.530	0.590	0.030
0.615	0.675	0.030
0.735	0.795	0.030
0.750	0.810	0.030
0.830	0.890	0.030
0.430	0.510	0.040
0.530	0.610	0.040
0.615	0.695	0.040
0.735	0.815	0.040
0.750	0.830	0.040
0.830	0.910	0.040

COATING C

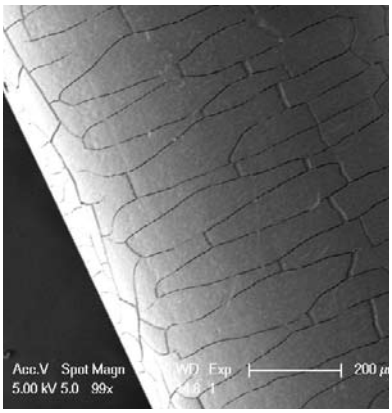
How can the outer surface of a PTFE tube be made adhesive ?

PTFE is known for its anti-adhesive properties which come from the energy strength of the C-F chemical links of this polymer. AXON' CABLE has developed a unique solution called Coating C which makes the surface of a PTFE tube adhesive without any chemical treatment.
It avoids the formation of cracks in the outer tube wall. The Coating C is a very thin film (few microns) working like an interfacial layer on the PTFE tubing outer surface building a micro-structure for the outer material to get mechanically captured.
Compared to existing treatments including chemical etching, Coating C is a more cost-effective, non toxic and long lasting solution. Plasma and Corona pre-treatment do not have an optimum efficiency on PTFE and are not durable.

TUBING WITHOUT COATING C



TUBING WITH COATING C



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