

Optinova PTFE Tubing

Solutions for Industrial Applications.



Optinova PTFE tubing solutions are best suited to offer high quality tubing for handling of all kinds of fluids where high reliability of the solution is required. With a variety of possible sizes, tolerances and length, Optinova PTFE tubing can be tailored to meet your application challenge without compromising on performance. For special applications please check our PTFE AWG and PTFE UL AWG product sheets as well as our Delitube™ for direct food contact applications.



Key advantages

- **Unmatched low friction:** The lowest friction coefficient of all polymers, ensuring smooth performance.
- **High-temperature capability:** Suitable for high-temperatures.
- **Resistance to chemicals:** Provides exceptional resistance to common solvents and acids.
- **Durability against elements:** Virtually unaffected by oxygen, ozone (O₃), and UV light.
- **Broad working temperature:** from -200° C to 260° C.
- **Superior dielectric properties:** Delivers excellent electrical insulation.
- **Customizable options:** Secondary operations available upon request.

Applications

- General fluid handling: chemical processing industry, laboratory analytics, hydraulics, pneumatics, water purification (Ozone)
- Electrical applications: insulation, liquid cooling, cryogenics, liner for re-informed mid/high pressure hoses
- Food, beverage and nutrition processing
- Components in cable harnesses
- Paint distribution systems
- Pharmaceutical production
- Automotive break hoses
- Chlorine or hydrogen electrolysis

Technical specifications

Diameter range:
ID 0,10 mm (0.004") up to 23,0 mm (0.90")
OD 0,30 mm (0.012") to 25,4 mm (1,0")
Wall thicknesses 0,10 mm (0.004") to 5,00 mm (0,196")
Tight tolerances from +/-0,03 mm (+/-0,001")
Usage temperature -70C (-94F) to +260C (500F)
UL94 V0, UL224
Materials:
Materials from Premium Suppliers
Various grades available upon special request
Regulatory:
Raw materials produced without use of PFOA or PFOS
REACH and RoHS compliant
FDA conformity as minimum, USP 88 Class VI on selected grades
Supply:
Possible fillers are Ceramic, Carbon, Graphite, Antistatic
Colored tubing is available in 10 standard colors, fully colored or striped
Fixed length of 25/30/50/100 or 200 m per coil
Straight pieces up to 6 mtr available in boxes

For more technical information, please contact us at our sales offices or visit our website: optinova.com/contacts

High quality tubing for handling of all kinds of fluids where high reliability of the solution is required.



We empower customers through highly reliable tubing solutions.



Industrial-grade certifications



Standard Tolerances

ID (mm/inch)	Tol (mm/inch)
>0.10 mm / >0.004"	+/-0,05 mm / +/-0.02"
>1.01 mm / > 0.041"	+/-0.10 mm / +/-0.004"
>2.01 mm />0.079	+/-0.15 mm /+/-0.006"
>4.01 mm / >0.158"	+/-0.20 mm /+/-0.008"
>8.01 mm / >0.315"	+/-0.30 mm /+/-0.012"
>12.51 mm / >0.493"	+/-0.50 mm /+/-0.020"

Wall (mm/inch)	Tol (mm/inch)
>0.10 mm / >0.004"	+/-0,03 mm 0.0011"
>0.20 mm / > 0.008"	+/-0.05 mm 0.0020"
>0.30 mm />0.012"	+/-0.07 mm 0.0027"
>0.50 mm / >0.020"	+/-0.10 mm 0.0039"
>0.70 mm / >0.0275"	+/-0.12 mm 0.0047"
>0.80 mm / >0.315"	+/-0.15 mm 0.0059"
>1.00 mm / >0.0393"	+/-0.20 mm 0.0079"
>1.25 mm / >0.0492"	+/-0.25 mm 0.0098"
>1.51 mm / >0.0594"	+/-0.30 mm 0.118"
>3.01 mm / >0.119"	+/-0.50 mm 0.020"

If you need fabricated tubing (pre-formed in 2D or 3D shapes), please send us your drawing and we make you a customized proposal.

Other secondary operations as cutting, hole punching, flaring, skiving, tapering, spiral cut, etching available upon request.

Monofilaments available in all materials up to 5 mm OD.

We also have solutions in other premium materials as PEEK, PFA, FEP, ETFE and PVdF.

About Us.

Founded in 1971, Optinova is a world-leading extrusion partner for advanced medical and industrial tubing. With sales offices around the world and four extrusion plants in Finland, Thailand, and the US, we are serving partners from 50+ countries across industries.

Contact Us

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