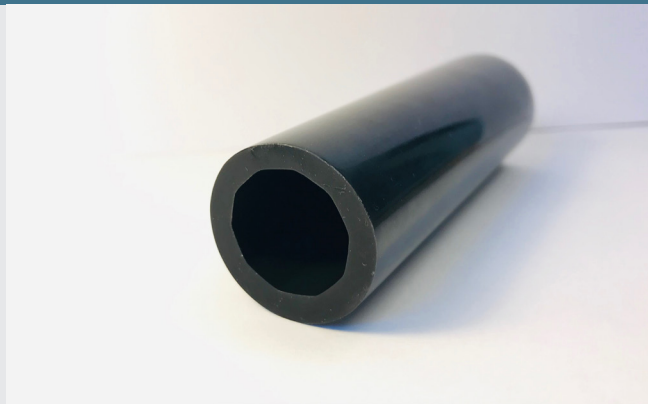
Optinova Antistatic Tubing

Solutions for Industrial Applications.

Optinova Antistatic Tubing solutions are ideal for applications where static electricity can be a safety hazard. PTFE and PFA are known for their excellent insulation properties.

One way to avoid static charge in sensitive environments is to add more conductivity to the fluoropolymer material by adding filler to the tubing material or stripes made of antistatic material on the surface of the tubing.



Key advantages

- **Excellent chemical resistance:** Ensures durability and performance in chemically harsh environments.
- **UL94 V0:** Meets stringent fire safety standards.
- **High resistance to solvents and acids:** Withstands exposure to aggressive chemicals without degrading.
- **Working temperature:** -100°C to +260°C
- **High mechanical strength and toughness:** durability and resistance to wear and stress.

Applications

- Semiconductor production processes (Front-end and Back-end)
- Aerospace fuel and hydraulics transfer
- Single gas or 2 phase mediums (gas & liquid) transport
- Dry and liquid medium transport with high velocity
- Pharmaceutical production
- Fuel hose liners
- Chemical distributio

Optinova's antistatic PTFE tubing meets the requirements of **resistivity according to EN12115**. Representative samples of antistatic PTFE and antistatic PFA compounds have been **tested at German DEKRA** and met the **requirements for hoses type Ω-CL according to IEC/TS60079-32-1:2013.**

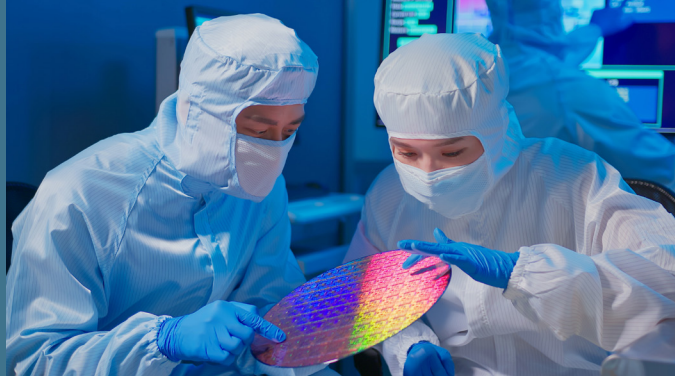
Technical specifications

Diameter range:
ID 1,00 mm (0,0393“) up to 20,0 mm (0,787“)
OD 2,00 mm (0,0787”) up to 24,0 mm (0,9448“)
Wall thickness: 0,50 mm (0.0196”) up to 4,00 mm (0,1574“)
Tight tolerances from +/-0,05mm (+/- 0,002”)
Usage temp. -200°C (-328° F) to +260°C (392° F)
UL 94 V0
Materials:
Material from premium suppliers
Various grades available upon request
Regulatory:
Raw materials produced without use of PFOA or PFOS
REACH and RoHS compliant
FDA conformity as minimum, USP 88 Class V1 on selected grades
Supply:
Standard tubes are natural (black), striped or multilayer can be black striped or grey in color, full colored tubing is not available
Standard supply: On coils with 25/30/50 or 100 meters (other fixed length upon request), For small diameters we use standard plastic spools.
Straight pieces up to 6 meters available

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

optinova
WHEN QUALITY MATTERS

We empower customers through highly reliable tubing solutions.



Industrial-grade certifications

ISO 9001 certified
ISO 13485 certified
ISO 14001 certified
IATF 16949 certified

Properties

	PFA	PTFE
General		
Color	Black	Black
Water absorption	<0,01 %	<0,01%
Water resistance	Excellent	Excellent
Chemical resistance	Excellent	Excellent
Oxygen Index	> 95 %	>95%
Flammability	UL 94 V-0	UL 94 V-0
Thermal		
Upper service temperature	260 °C	260 °C
Melting Point	305 °C	327 °C
Electrical		
Resistivity	< 10^6 ohm.cm	< 10^6 ohm.cm

PTFE: FDA and USP Class VI base material, antistatic stripes or multilayer: Upon Request, minimum volumes apply.

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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