

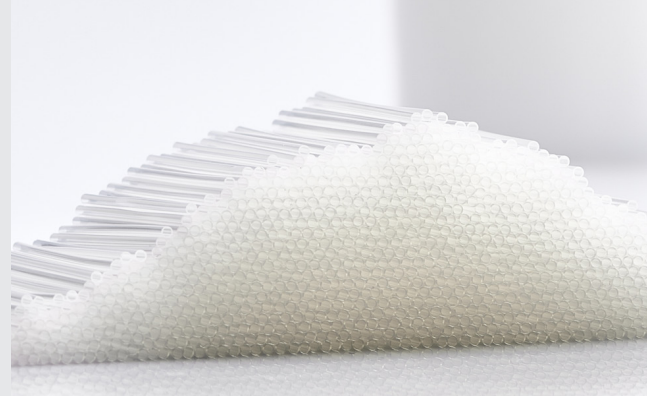
Optinova IV Catheter Tubing

for Medical Applications.



Optinova's IV Catheter Tubing, made from FEP, PTFE, and TPU, is designed for exceptional flexibility and unmatched patient comfort.

Available in clear, multiple-striped, and fully radiopaque options, our tubing meets all standard sizes and can be tailored to your unique specifications.



Key advantages

- **Choose:** From three material types based on your specific needs
- **Precision:** Extruded with the tightest tolerances
- **Custom compounding:** Customization for bespoke solutions
- **Traceability:** Ensures quality and compliance
- **PFAS-Free:** TPU Products are free from PFAS
- **Sterilization:** Compatible with EtO and Peroxide sterilization methods

Applications

- IV catheterization designed for precise and reliable critical fluid delivery
- Optimized for seamless infusion therapy applications

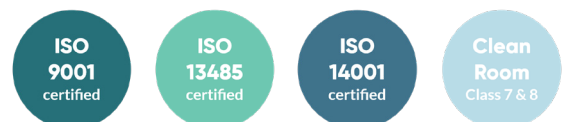
The **most reliable** IV Catheter Tubing solutions in the market extruded to the **tightest tolerances** in the industry.

Technical specifications

Size:	14-26G
Sterilization:	EtO, Peroxide
Density:	1.15 - 1.21
Water absorption:	≤0.01
Chemical resistance:	Excellent
Max service temp:	80°C (176°F)
Ultimate tensile strength:	46.9 Mpa
Elongation at break:	390%
Hardness:	55-75 Shore D

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

Medical-grade certifications



We empower customers through highly reliable tubing solutions.



Properties

	Unit	TPU	FEP	PTFE
Density		1.15-1.21	2.15	2.17
Transparency		Good	Very good	Good
Sterilization		EtO, Peroxide	EtO, Steam	EtO, Steam
Environmental				
Water absorption	%	<0.30	<0.01	<0.01
Weather resistance		Excellent	Excellent	Excellent
Chemical resistance		Excellent	Excellent	Excellent
Thermal				
Thermal conductivity	BTU/h/ft/°F	0.32	1.4	1.7
Max service temperature	°C (°F)	80 (176)	200 (390)	260 (500)
Vicat softening	°C (°F)	109 (228)		
Deflection temp (66 psi)	°C (°F)		59 (138)	74 (166)
Mechanical				
Friction		Medium	Low	Very Low
Ultimate tensile strength	MPa	47.5	20-28	20-34
Elongation at break	%	350-460	300-325	200-400
Flexural Modulus	MPa	68.9-1516.80	550-700	275-620
Hardness	Shore D	55-75	55-60	55-65

Note: This table is only meant to serve as a reference and the values are not necessarily typical for any specification. Users should evaluate the material to determine the suitability for their own application.

Optinova has developed its own in-house compounding technology to secure the best quality of compounds in various materials. Fillers used in Optinova's IV Catheter Optinfusion™ tubing are Barium sulfate (BaSO₄), Tungsten and Bismuth sub-carbonate.

Optinova maintains an open dialogue with customers to be able to provide personalized solutions. Optinova tubing is configured as cut-to-length pieces or spools.

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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