

ETFE TUBING



Key advantages

- Mechanically strong
- Excellent impact strength
- Good resistance to stress cracking
- ETFE is virtually unaffected by oxygen, ozone and UV light

Dimensions

Optinova produces metric, imperial and AWG sizes. Special dimensions can be made upon request. Custom production length is available but fixed length can be supplied upon request.

“50 years of experience serving over 1 000 long-term partners, **Optinova’s reputation for quality and product consistency** has been an industry standard that we maintain every day”, Anders Wiklund, CEO

STANDARD TOLERANCES	
OD mm	Tol mm
>1.99	+/- 0.07
2.00-3.99	+/- 0.08
4.00-7.99	+/- 0.10
8.00-9.99	+/- 0.12
10.00-11.99	+/- 0.15
12.00-15.99	+/- 0.20
16.00-17.99	+/- 0.25
18.00-19.99	+/- 0.30
20.00-23.99	+/- 0.35
24.00-29.99	+/- 0.40
etc.	

STANDARD TOLERANCES	
Wall mm	Tol mm
>0.30	+/- 0.05
0.31-0.70	+/- 0.08
0.71-1.00	+/- 0.10
1.01-1.30	+/- 0.12
1.31-1.60	+/- 0.15
1.61-2.00	+/- 0.20
2.01-2.50	+/- 0.25
2.51-3.00	+/- 0.30
3.01-3.50	+/- 0.35
3.51-4.00	+/- 0.40
etc.	

Contact our sales offices or visit our website for more information about sample and specifications!

[optinova.com/contacts](https://www.optinova.com/contacts)

ETFE	Property	Specification	Unit		
General	Continuous service temperature	Maximum	°C (°F)	150 (302)	
	Chemical resistance		-	Very good	
	Specific gravity	D792	-	1.73	
	Transparency	-	-	Good	
	Sterialization			Eto, Steam, Radiation	
Environmental	Water absorption	D570	%	< 0.03	
	Weather resistance	-	-	Excellent	
	Oxygene index	D2863	%	> 30	
	Flammability	UL 94	-	V-0	
Thermal	Melting point		°C (°F)	260 (500)	
	Thermal conductivity	C177	BTU/(h.ft.°F)	1.6	
	Deflection temperature 66 psi (0.5 MPa)	D648	°C (°F)	104 (220)	
	Deflection temperature 264 psi (1.8 MPa)	D648	°C (°F)	71 (160)	
Mechanical	Tensile strength	D1708, D638	psi MPa	6 500 44.8	
	Elongation	D1708, D638	%	230-300	
	Compressive strength	D695	psi MPa	7 000 48.3	
	Impact strength	D256 (+23°C)	Ft-Lb/in	No Break	
	Flexural Modulus	D790 (+23°C)	psi MPa	200 000 1 379	
	Tensile Modulus	D638	psi MPa	120 000 827.4	
	Hardness	D2240	-	D-75	
	Coefficient of friction	-	-	0.23	
	Electrical	Dielectric constant	D150 (103 Hz)	-	2.6
			D150 (106 Hz)	-	2.6
Dielectric dissipation factor		D150 (103 Hz)	-	0.0008	
		D150 (106 Hz)	-	0.0005	
Dielectric strength (short term) 10 mils film		D149	Volt/mil	2 000	
Volume resistivity		D257	Ohm • cm	> 10 ¹⁷	