Optinova
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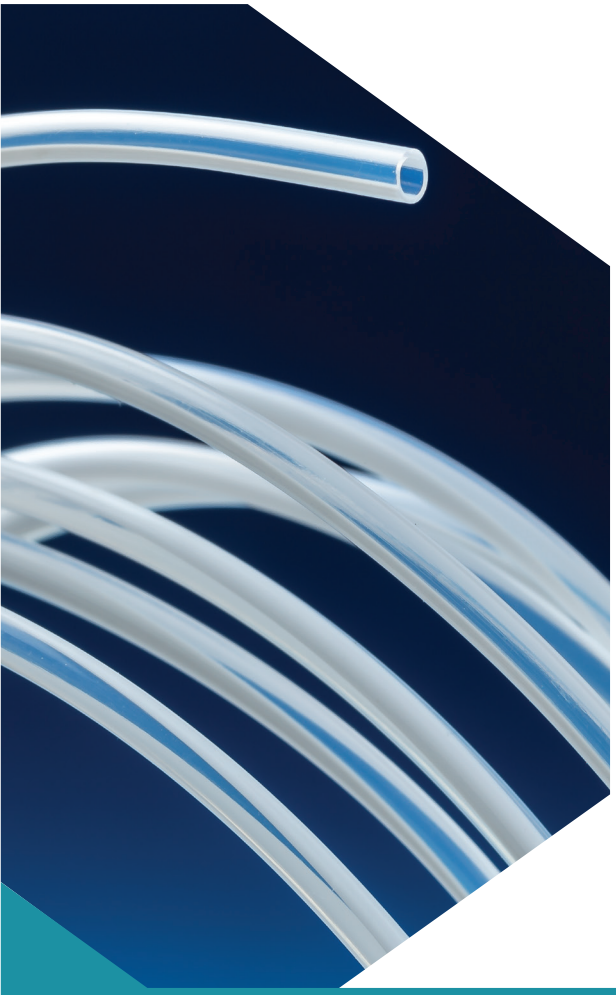
Material Brochure

PVDF TUBING



Key advantages

- Excellent resistance to creep and fatigue.
- Excellent thermal stability.
- Excellent radiation resistance.
- Commonly used as lining and protective barrier in chemical applications.
- PVdF is virtually unaffected by oxygen, ozone and UV light

Dimensions

Optinova produces metric, imperial and AWG sizes. Special dimensions can be made upon request. Random production length is standard but fixed length and cut-to-length pieces can be supplied upon request.

*"50 years of experience serving over 1 000 long-term partners, **Optinova's reputation for quality and 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.	

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Material properties

PVdF	Property	Specification	Unit	
General	Continuous service temperature	Maximum	°C	150
			°F	302
	Chemical resistance		-	Good
	Specific gravity	D792	-	1.78
	Transparency	-	-	Poor
	Sterialization			Eto, Steam
Environmental	Water absorption	D570	%	< 0.04
	Weather resistance	-	-	Excellent
	Oxygene index	D2863	%	44
	Flammability	UL 94	-	V-0
Thermal	Melting point		°C	175
			°F	347
	Thermal conductivity	C177	BTU/(h·ft·°F)	1.3
	Deflection temperature	D648	°C	
	66 psi			
	264 psi			113
	Deflection temperature	D648	°F	
	66 psi			
	264 psi			235
Mechanical	Tensile strength	D1708, D638	psi	5 000
	Elongation	D1708, D638	%	150
	Compressive strength	D695	psi	11 600
	Impact strength	D256 (+23°C)	Ft-Lb/in	3-6
	Flexural Modulus	D790 (+23°C)	psi	250 000
	Tensile Modulus	D638	psi	200 000
	Hardness	D2240	-	D-78
	Coefficient of friction	-	-	0.30
Electrical	Dielectric constant	D150 (10^3 Hz)	-	7.2
		D150 (10^6 Hz)	-	8.5
	Dielectric dissipation factor	D150 (10^3 Hz)	-	0.030
		D150 (10^6 Hz)	-	0.09
	Dielectric strength (short term) 10 mils film	D149	Volt/mil	1 600
	Volume resistivity	D257	Ohm • cm	> 10^{14}