Optinova
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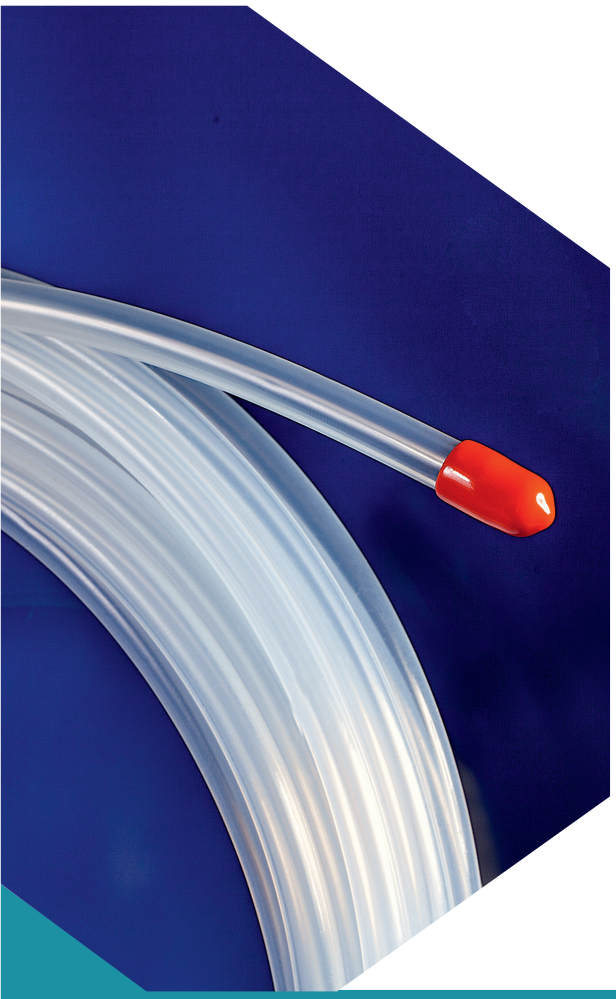
Material Brochure

PFA TUBING



Key advantages

- Similar properties to PTFE tubing.
- Melt processable – gives longer continuous length than PTFE.
- Higher continuous working temperature compared to FEP.
- PFA is virtually unaffected by oxygen, ozone and UV light.
- Sterilisaton by ETO or Steam.

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.	

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

optinova.com/contacts

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Material properties

PFA	Property	Specification	Unit	
General	Continuous service temperature	Maximum	°C	260
			°F	500
	Chemical resistance		-	Excellent
	Specific gravity	D792	-	2.15
	Transparency	-	-	Excellent
	Sterialization			Eto, Steam
Environmental	Water absorption	D570	%	< 0.03
	Weather resistance	-	-	Excellent
	Oxygene index	D2863	%	> 95
	Flammability	UL 94	-	V-0
Thermal	Melting point		°C	305
			°F	581
	Thermal conductivity	C177	BTU/(h.ft.°F)	1.3
	Deflection temperature	D648	°C	
	66 psi			74
	264 psi			48
	Deflection temperature	D648	°F	
	66 psi			166
	264 psi			118
Mechanical	Tensile strength	D1708, D638	psi	4 000
	Elongation	D1708, D638	%	300
	Compressive strength	D695	psi	2 200
	Impact strength	D256 (+23°C)	Ft-Lb/in	No Break
	Flexural Modulus	D790 (+23°C)	psi	100 000
	Tensile Modulus	D638	psi	40 000
	Hardness	D2240	-	D-60
	Coefficient of friction	-	-	0.21
Electrical	Dielectric constant	D150 (103 Hz)	-	2.1
		D150 (106 Hz)	-	2.1
	Dielectric dissipation factor	D150 (103 Hz)	-	0.0002
		D150 (106 Hz)	-	0.0003
	Dielectric strength (short term) 10 mils film	D149	Volt/mil	2 000
	Volume resistivity	D257	Ohm • cm	> 10^{18}