



PVDF TUBING



Key properties / advantages of PVdF tubing

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

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.	

	PROPERTY	SPECIFICATION	UNIT		
General	Continuous service temperature	Maximum	°C	150	
			°F	302	
	Chemical resistance		–	Good	
	Specific gravity	D 792	–	1.78	
Electrical	Dielectric constant	D 150 at 10 ³ Hz	–	7.2	
		D 150 at 10 ⁶ Hz	–	8.5	
	Dielectric dissipation factor	D 150 at 10 ³ Hz	–	0.030	
		D 150 at 10 ⁶ Hz	–	9 x 10 ⁻²	
	Dielectric strength (short term) 10 mils film	D 149	Volt/mil	1 600	
Volume resistivity	D 257	Ohm • cm	>10 ¹⁴		
Enviromental	Water absorption	D 570	%	< 0.04	
	Weather resistance	–	–	Excellent	
	Oxygene index	D 2863	%	44	
	Flammability	UL 94	–	V-0	
Mechanical	Tensile strength	D 1708, D 638	psi	5 000	
	Elongation	D 1708, D 638	%	150	
	Compressive strength	D 695	psi	11 600	
	Impact strength	D 256 at +23°C	Ft-Lb/in	3–6	
	Flexural Modulus	D 790 at +23°C	psi	250 000	
	Tensile Modulus	D 638	psi	200 000	
	Hardness	D 2240	–	D-78	
Thermal	Melting point		° C	160	
			° F	320	
	Thermal conductivity	C-177	BTU/hr/ft ² /°F.in	1.3	
	Deflection temperature 66 psi 264 psi	D 648		° C	
					113
	Deflection temperature 66 psi 264 psi	D 648		° F	
235					