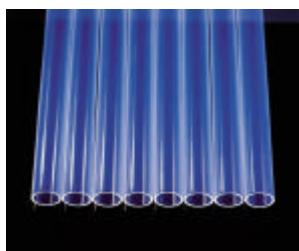


## Datasheet PVDF Tubing

### 1. Material

#### PVDF - (polyvinylidene fluoride)



PVDF has very good creep resistance that is superior to that of other fluoropolymers. Its exceptional properties include; low smoke generation and flame spread, mechanical strength and toughness, high abrasion resistance, thermal stability and purity, and resistance to most chemicals and solvents. PVDF is resistant to UV light and radiation and shows low permeability to most gases and liquids. It has high dielectric strength, and high dissipation factor limits at high frequencies. There are two types of PVDF, the standard one is rigid, the second type is more flexible.

### 2. Properties

<b>general</b>	Upper service temperature	150 °C
	Chemical resistance	good
	Specific gravity	1.70
	Melting point	260 °C
<b>electrical</b>	Dielectric constant	7.2
	Dielectric dissipation factor	0.03
	Dielectric strength	1600 Volt / mil
<b>Mechanical</b>	Tensile strength	5000 psi
	Elongation	150 %
	Compressive strength	11600 psi
	Flexural Modulus	250000 psi
	Hardness	D-78
<b>Enviromental</b>	Water absorption	< 0.04 %
	Water resistance	excellent
	Oxygen index	44 %
	Flammability UL 94	V-0

### 3. Sizes

See our website at <http://www.scantube.com> or our catalog.  
 Scantube produces metric and industrial sizes as well as AWG sizes.  
 Special dimensions can be made upon request.

**4. Tolerances**

(GKV-Norm )

<u>Wall mm</u>	<u>Tolerance</u>	<u>OD mm</u>	<u>Tolerance</u>
0.10 - 0.30 mm	+/- 0.05 mm	2.00 - 4.00 mm	+/- 0.08 mm
0.31 - 0.70 mm	+/- 0.08 mm	4.01 - 7.99 mm	+/- 0.10 mm
0.71 - 1.00 mm	+/- 0.10 mm	8.00 - 9.99 mm	+/- 0.12 mm
1.01 - 1.30 mm	+/- 0.12 mm	10.00 - 11.99 mm	+/- 0.15 mm
1.31 - 1.60 mm	+/- 0.15 mm	12.00 - 15.99 mm	+/- 0.20 mm
1.61 - 2.00 mm	+/- 0.20 mm	16.00 - 17.99 mm	+/- 0.25 mm
		18.00 - 19.99 mm	+/- 0.30 mm
		above 20 mm	ask us.

**5. Theoretical burstpressure values at room temperature**

These values are examples on theoretical basis. Scantube can, what so ever, not take any responsibility for the values shown. The workingpressure depends on what safetyfactor you choose for your application.

<u>ID</u>	<u>OD</u>	<u>Wall</u>	<u>BAR=KG/cm2</u>
1	3	1	440.00
2	4	1	220.00
3	5	1	146.67
4	6	1	110.00
5	7	1	88.00
6	8	1	73.33
7	9	1	62.89
8	10	1	55.00
9	11	1	48.89
10	12	1	44.00
11	13	1	40.00
12	14	1	36.67
13	15	1	33.85
14	16	1	31.43
15	17	1	29.30
16	18	1	27.50
17	19	1	25.88
18	20	1	24.44

*More information can be found at <http://www.scantube.com>*