

# BH-MT-PTFE-UTW

Medical grade PTFE ultra thin wall extruded tubing and heat shrink tubing

**Features/Applications:**

BH-MT-PTFE-UTW is a manufactured with polytetrafluoroethylene (PTFE).

It is specially designed for difficult applications that require extremely thin-walled tubing with strong encapsulation protection. Ultra thin wall PTFE tube is typically used for applications involving sensors, for an endoscopy, batteries and encapsulation of leads.

- Shrink Ratio: Non shrink and 1.7:1;
- Operating temperature: -65°C ~ 260°C;
- Minimum fully recovery temperature: 350°C;
- ISO 10993-1 compliant;
- Compatibility with high pressure, ETO, steam and dry heat sterilization;
- Color: Translucent.



## Technical Data

Property	Specification Requirement	Test Method	Typical Value
Tensile strength	≥17.3MPa	ASTM D2671	≥22MPa
Elongation at break	≥200%	ASTM D2671	≥300%
Heat shock	No cracking	ASTM D2671 (400°C/4 hrs)	No cracking
Low temperature flexibility	No cracking	ASTM D2671 (-65°C/4 hrs)	No cracking
Volume resistivity	≥10 <sup>15</sup> Ω·cm	ASTM D2671	≥10 <sup>15</sup> Ω·cm
Dielectric strength	≥34kV/mm	ASTM D2671	34 kV/mm
Copper corrosion	No corrosion	ASTM D2671	No corrosion
No heavy metals contained			

## Product Dimensions (mm)

Tab 1. Extruded ultra thin wall PTFE Tubing

Model #	ID		Wall thickness	
	In.	mm	In.	mm
BH-MT-PTFE-UTW-28	0.013	0.33	0.003	0.08
BH-MT-PTFE-UTW-26	0.016	0.41	0.003	0.08
BH-MT-PTFE-UTW-24	0.020	0.51	0.002	0.05
BH-MT-PTFE-UTW-22	0.025	0.64	0.002	0.05
BH-MT-PTFE-UTW-20	0.032	0.81	0.002	0.05
BH-MT-PTFE-UTW-18	0.040	1.00	0.002	0.05
BH-MT-PTFE-UTW-16	0.065	1.65	0.002	0.05
BH-MT-PTFE-UTW-14	10.073	1.85	0.002	0.05
BH-MT-PTFE-UTW-12	0.084	2.15	0.002	0.05
BH-MT-PTFE-UTW-10	0.098	2.50	0.002	0.05
BH-MT-PTFE-UTW-8	0.110	2.80	0.002	0.05
BH-MT-PTFE-UTW-6	0.162	4.10	0.003	0.08
BH-MT-PTFE-UTW-4	0.204	5.20	0.004	0.09
BH-MT-PTFE-UTW-2	0.258	6.55	0.004	0.10
BH-MT-PTFE-UTW-0	0.325	8.35	0.005	0.127

Customized specifications are available on request. The tolerance of most specifications can be controlled within ± 0.025mm [0.001in]

**Tab 2. 1.7:1 Ultra thin wall PTFE heat shrink tubing**

Model #	Min. ID		Fully recovered ID(Max.)		Fully recovered WT(Nor.)	
	In.	mm	In.	mm	In.	mm
BH-MT-PTFE-1.7X-UTW-26	0.046	1.17	0.022	0.56	0.002	0.051
BH-MT-PTFE-1.7X-UTW-24	0.050	1.27	0.027	0.69	0.002	0.051
BH-MT-PTFE-1.7X-UTW-22	0.055	1.40	0.032	0.82	0.002	0.051
BH-MT-PTFE-1.7X-UTW-20	0.060	1.52	0.039	0.99	0.002	0.051
BH-MT-PTFE-1.7X-UTW-18	0.076	1.94	0.049	1.25	0.002	0.051
BH-MT-PTFE-1.7X-UTW-16	0.093	2.36	0.061	1.54	0.002	0.051
BH-MT-PTFE-1.7X-UTW-14	0.120	3.00	0.072	1.83	0.002	0.051
BH-MT-PTFE-1.7X-UTW-12	0.150	3.80	0.089	2.26	0.002	0.051
BH-MT-PTFE-1.7X-UTW-10	0.191	4.85	0.112	2.85	0.002	0.051
BH-MT-PTFE-1.7X-UTW-8	0.240	6.10	0.141	3.58	0.0025	0.064

Customized specifications are available on request. The tolerance of most specifications can be controlled within  $\pm$  0.025mm [0.001in]