

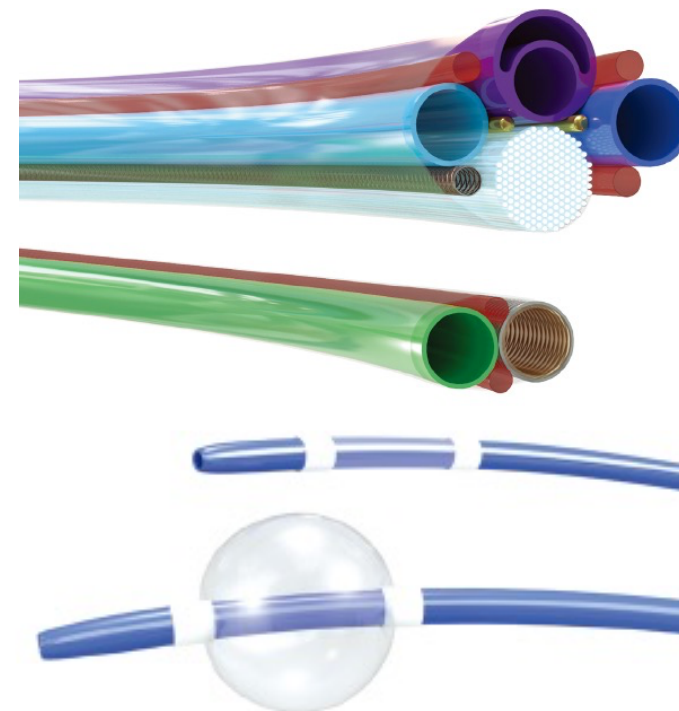
BH-MT-PET-CB

Medical grade ultra thin wall medical grade PET heat shrink tubing

Features/Applications:

BH-MT-PET-CB heat shrink tubes is made of medical grade Polyethylene terephthalate. Suitable for insulation of medical devices, variable-stiffness catheters, protective covering/coating and bundling, reinforcement, tip forming, tube making and printing, and electrical insulation. Its tough material hardness and ultra-thin wall thickness can fully protect extremely fine products without being affected by thickness.

- Thin wall, high tensile strength, high Dielectric strength
- Shrink Ratio: 1.3:1 and 1.6:1
- Minimum shrink temperature: 85°C
- Minimum fully recovery temperature: 190°C
- Typical shrinking temperature recommended for most applications: 150°C
- Continuous operating temperature: -40°C~170°C
- Resistant to most chemicals and oils
- ISO 10993, RoHS compliant
- Compatibility with gamma rays and ETO sterilization
- Can be printed using conventional techniques
- Inner diameter before heat shrinking: 0.3-8mm.
- Wall thickness before heat shrinking: 0.0064-0.05mm



Technical Data

Property	Unit	Performance
Longitudinal change	%	-50% ~ -30%
Tensile strength	MPa	≥ 10 (or > 20,000 PSI)
Break elongation	%	≥ 62%
Dielectric strength	KV/mm	≥ 15
Dielectric strength rating	V/mil	> 4,000 (60Hz)
Dielectric constant	ε	3.3

volume resistivity	$\Omega \cdot \text{cm}$	$\geq 10^{18}$
Melting point	$^{\circ}\text{C}$	235 $^{\circ}\text{C}$

Production Dimensions



Model Number	Unit	Expanded ID	Expanded WT					Recovered ID	Recovered WT					Standard Length
			XS	S	M	L	XL		XS	S	M	L	XL	
1.3:1 Shrink ratio														
MT-PET-CB-1.3X-□-0.30	Inch	0.012±0.001	0.0003±0.0001	0.0005±0.0001	-	-	-	0.01	0.0004	0.0006	-	-	-	50
	mm	0.30±0.03	0.008±0.003	0.0127±0.003	-	-	-	0.23	0.0104	0.0165	-	-	-	1270
MT-PET-CB-1.3X-□-0.41	Inch	0.016±0.001	0.0003±0.0001	0.0005±0.0001	0.0007±0.0002	0.0010±0.0002	-	0.013	0.0004	0.0006	0.001	0.0013	-	50
	mm	0.41±0.03	0.008±0.003	0.0127±0.003	0.019±0.004	0.0254±0.005	-	0.32	0.0104	0.0165	0.0247	0.033	-	1270
MT-PET-CB-1.3X-□-0.53	Inch	0.021±0.001	0.0003±0.0001	0.0005±0.0001	0.0007±0.0002	0.0010±0.0002	-	0.016	0.0004	0.0006	0.001	0.0013	-	50
	mm	0.53±0.03	0.008±0.003	0.0127±0.003	0.019±0.004	0.0254±0.005	-	0.41	0.0104	0.0165	0.0247	0.033	-	1270
MT-PET-CB-1.3X-□-0.69	Inch	0.027±0.002	0.0003±0.0001	0.0005±0.0001	0.0007±0.0002	0.0010±0.0002	-	0.021	0.0004	0.0006	0.001	0.0013	-	50
	mm	0.69±0.05	0.008±0.003	0.0127±0.003	0.019±0.004	0.0254±0.005	-	0.53	0.0104	0.0165	0.0247	0.033	-	1270
MT-PET-CB-1.3X-□-0.89	Inch	0.035±0.002	-	0.0005±0.0001	0.0007±0.0002	0.0010±0.0002	-	0.027	-	0.0006	0.001	0.0013	-	50
	mm	0.89±0.05	-	0.0127±0.003	0.019±0.004	0.0254±0.005	-	0.69	-	0.0165	0.0247	0.033	-	1270
MT-PET-CB-1.3X-□-1.17	Inch	0.046±0.002	-	0.0005±0.0001	0.0007±0.0002	0.0010±0.0002	-	0.035	-	0.0006	0.001	0.0013	-	50
	mm	1.17±0.05	-	0.0127±0.003	0.019±0.004	0.0254±0.005	-	0.9	-	0.0165	0.0247	0.033	-	1270
MT-PET-CB-1.3X-□-1.50	Inch	0.059±0.004	-	0.0005±0.0001	0.0007±0.0002	0.0010±0.0002	0.0020±0.0004	0.045	-	0.0006	0.001	0.0013	0.0026	50
	mm	1.50±0.10	-	0.0127±0.003	0.019±0.004	0.0254±0.005	0.051±0.01	1.15	-	0.0165	0.0247	0.033	0.0663	1270
MT-PET-CB-1.3X-□-1.96	Inch	0.077±0.004	-	0.0005±0.0001	0.0007±0.0002	0.0010±0.0002	0.0020±0.0004	0.059	-	0.0006	0.001	0.0013	0.0026	50
	mm	1.96±0.10	-	0.0127±0.003	0.019±0.004	0.0254±0.005	0.051±0.01	1.51	-	0.0165	0.0247	0.033	0.0663	1270
MT-PET-CB-1.3X-□-2.54	Inch	0.100±0.004	-	0.0005±0.0001	0.0007±0.0002	0.0010±0.0002	0.0020±0.0004	0.077	-	0.0006	0.001	0.0013	0.0026	50
	mm	2.54±0.10	-	0.0127±0.003	0.019±0.004	0.0254±0.005	0.051±0.01	1.95	-	0.0165	0.0247	0.033	0.0663	1270
MT-PET-CB-1.3X-□-3.33	Inch	0.131±0.008	-	0.0006±0.0001	0.0007±0.0002	0.0010±0.0002	0.0020±0.0004	0.101	-	0.0008	0.001	0.0013	0.0026	50
	mm	3.33±0.20	-	0.0152±0.003	0.019±0.004	0.0254±0.005	0.051±0.01	2.56	-	0.0198	0.0247	0.033	0.0663	1270
MT-PET-CB-1.3X-□-4.32	Inch	0.170±0.008	-	0.0007±0.0001	0.0010±0.0002	0.0014±0.0002	0.0020±0.0004	0.131	-	0.0009	0.0013	0.0018	0.0026	50
	mm	4.32±0.20	-	0.0178±0.003	0.026±0.004	0.0360±0.005	0.051±0.01	3.32	-	0.0231	0.0338	0.0468	0.0663	1270
MT-PET-CB-1.3X-□-5.61	Inch	0.221±0.011	-	0.0008±0.0001	0.0012±0.0002	0.0017±0.0002	0.0020±0.0004	0.17	-	0.001	0.0015	0.0021	0.0026	50
	mm	5.61±0.28	-	0.0203±0.003	0.030±0.004	0.0420±0.005	0.051±0.01	4.32	-	0.0264	0.039	0.0546	0.0663	1270

MT-PET-CB- 1.3X-□-7.29	Inch	0.287±0.015	-	0.0009±0.0001	0.0013±0.0002	0.0019±0.0002	0.0020±0.0004	0.221	-	0.0012	0.0017	0.0024	0.0026	50
	mm	7.29±0.38	-	0.0229±0.003	0.034±0.004	0.0470±0.005	0.051±0.01	5.61	-	0.0298	0.0442	0.0611	0.0663	1270
1.6:1 Shrink ratio														
MT-PET-CB- 1.6X-□-0.30	Inch	0.012±0.001	0.0003±0.0001	0.0005±0.0001	-	-	-	0.007	0.0005	0.0008	-	-	-	50
	mm	0.30±0.03	0.008±0.003	0.0127±0.003	-	-	-	0.19	0.0128	0.0203	-	-	-	1270
MT-PET-CB- 1.6X-□-0.41	Inch	0.016±0.001	0.0003±0.0001	0.0005±0.0001	0.0007±0.0002	0.0010±0.0002	-	0.01	0.0005	0.0008	0.0012	0.0016	-	50
	mm	0.41±0.03	0.008±0.003	0.0127±0.003	0.019±0.004	0.0254±0.005	-	0.26	0.0128	0.0203	0.0304	0.0406	-	1270
MT-PET-CB- 1.6X-□-0.53	Inch	0.021±0.001	0.0003±0.0001	0.0005±0.0001	0.0007±0.0002	0.0010±0.0002	-	0.013	0.0005	0.0008	0.0012	0.0016	-	50
	mm	0.53±0.03	0.008±0.003	0.0127±0.003	0.019±0.004	0.0254±0.005	-	0.33	0.0128	0.0203	0.0304	0.0406	-	1270
MT-PET-CB- 1.6X-□-0.69	Inch	0.027±0.002	0.0003±0.0001	0.0005±0.0001	0.0007±0.0002	0.0010±0.0002	-	0.017	0.0005	0.0008	0.0012	0.0016	-	50
	mm	0.69±0.05	0.008±0.003	0.0127±0.003	0.019±0.004	0.0254±0.005	-	0.43	0.0128	0.0203	0.0304	0.0406	-	1270
MT-PET-CB- 1.6X-□-0.89	Inch	0.035±0.002	-	0.0005±0.0001	0.0007±0.0002	0.0010±0.0002	-	0.022	-	0.0008	0.0012	0.0016	-	50
	mm	0.89±0.05	-	0.0127±0.003	0.019±0.004	0.0254±0.005	-	0.56	-	0.0203	0.0304	0.0406	-	1270
MT-PET-CB- 1.6X-□-1.17	Inch	0.046±0.002	-	0.0005±0.0001	0.0007±0.0002	0.0010±0.0002	-	0.029	-	0.0008	0.0012	0.0016	-	50
	mm	1.17±0.05	-	0.0127±0.003	0.019±0.004	0.0254±0.005	-	0.73	-	0.0203	0.0304	0.0406	-	1270
MT-PET-CB- 1.6X-□-1.50	Inch	0.059±0.004	-	0.0005±0.0001	0.0007±0.0002	0.0010±0.0002	0.0020±0.0004	0.037	-	0.0008	0.0012	0.0016	0.0032	50
	mm	1.50±0.10	-	0.0127±0.003	0.019±0.004	0.0254±0.005	0.051±0.01	0.94	-	0.0203	0.0304	0.0406	0.0816	1270
MT-PET-CB- 1.6X-□-1.96	Inch	0.077±0.004	-	0.0005±0.0001	0.0007±0.0002	0.0010±0.0002	0.0020±0.0004	0.048	-	0.0008	0.0012	0.0016	0.0032	50
	mm	1.96±0.10	-	0.0127±0.003	0.019±0.004	0.0254±0.005	0.051±0.01	1.23	-	0.0203	0.0304	0.0406	0.0816	1270
MT-PET-CB- 1.6X-□-2.54	Inch	0.100±0.004	-	0.0005±0.0001	0.0007±0.0002	0.0010±0.0002	0.0020±0.0004	0.063	-	0.0008	0.0012	0.0016	0.0032	50
	mm	2.54±0.10	-	0.0127±0.003	0.019±0.004	0.0254±0.005	0.051±0.01	1.59	-	0.0203	0.0304	0.0406	0.0816	1270
MT-PET-CB- 1.6X-□-3.33	Inch	0.131±0.008	-	0.0006±0.0001	0.0007±0.0002	0.0010±0.0002	0.0020±0.0004	0.082	-	0.001	0.0012	0.0016	0.0032	50
	mm	3.33±0.20	-	0.0152±0.003	0.019±0.004	0.0254±0.005	0.051±0.01	2.08	-	0.0243	0.0304	0.0406	0.0816	1270
MT-PET-CB- 1.6X-□-4.32	Inch	0.170±0.008	-	0.0007±0.0001	0.0010±0.0002	0.0014±0.0002	0.0020±0.0004	0.106	-	0.0011	0.0016	0.0023	0.0032	50
	mm	4.32±0.20	-	0.0178±0.003	0.026±0.004	0.0360±0.005	0.051±0.01	2.7	-	0.0285	0.0416	0.0576	0.0816	1270
MT-PET-CB- 1.6X-□-5.61	Inch	0.221±0.011	-	0.0008±0.0001	0.0012±0.0002	0.0017±0.0002	0.0020±0.0004	0.138	-	0.0013	0.0019	0.0026	0.0032	50
	mm	5.61±0.28	-	0.0203±0.003	0.030±0.004	0.0420±0.005	0.051±0.01	3.51	-	0.0325	0.048	0.0672	0.0816	1270
MT-PET-CB- 1.6X-□-7.29	Inch	0.287±0.015	-	0.0009±0.0001	0.0013±0.0002	0.0019±0.0002	0.0020±0.0004	0.18	-	0.0014	0.0021	0.003	0.0032	50
	mm	7.29±0.38	-	0.0229±0.003	0.034±0.004	0.0470±0.005	0.051±0.01	4.56	-	0.0366	0.0544	0.0752	0.0816	1270

Note: The "□" of product model BH-MT-PET-CB-□-000 corresponds to the wall thickness specifications with numbers XS, S, M, L, and XL indicating different thicknesses.