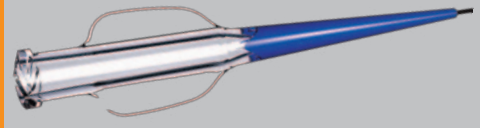


## MT-5000

### LDPE Heat Shrink Tubing

#### Applications

- Strain relief applications



#### PROFILE

- Shrink ratio  $\leq$  4:1
- Full recovery at 110°C (230°F) minimum
- Supports sterilization environments: gamma and ethylene oxide (ETO)
- Manufactured to ISO 10993 standards
- Registered with the FDA: MAF-469
- Custom sizing, colors, finishing and value-add options available
- Radiopacity can be customized
- Adhesive-layer option available

#### ABOUT

- MT-5000 is a crosslinked low density polyethylene (LDPE) heat shrink tubing and offers excellent flexibility making it a great option for strain relief applications.
- Its homogeneous structure (properties evenly distributed) contributes to its consistency and high performance, making our MT-5000 essentially free from flaws, defects, pinholes, seams, cracks or inclusions
- MT-5000 is flexible with a high shrink ratio making it a great option for strain relief applications.

TABLE 1: DIMENSIONS

Standard Sizes	As Supplied		Recovered							
	Inside Diameter Minimum (D)		Inside Diameter Maximum (d)		Wall Thickness (in., mm.) (W)					
	in.	mm.	in.	mm.	Minimum	Maximum	Nominal			
3/64	.046	1.17	.023	0.58	.013	0.33	.019	0.48	.016	0.40
1/16	.063	1.60	.031	0.79	.014	0.35	.020	0.50	.017	0.43
3/32	.093	2.36	.046	1.17	.017	0.43	.023	0.58	.020	0.50
1/8	.125	3.18	.062	1.58	.017	0.43	.023	0.58	.020	0.50
3/16	.187	4.75	.093	2.36	.017	0.43	.023	0.58	.020	0.50
1/4	.250	6.35	.125	3.18	.022	0.56	.028	0.71	.025	0.64
3/8	.375	9.53	.187	4.75	.022	0.56	.028	0.71	.025	0.64
1/2	.500	12.70	.250	6.35	.022	0.56	.028	0.71	.025	0.64
3/4	.750	19.05	.375	9.53	.027	0.69	.033	0.84	.030	0.76

## Heat Shrink Tubing – MT-5000

TABLE 2: PROPERTIES

Property	Unit	Requirement	Test Method
<b>Physical</b>			
Dimensions*	inches ( <i>mm</i> )	In accordance with Table 1	
Longitudinal change*	percent	+0, -10 maximum	ASTM D 2671
Concentricity as supplied*	percent	70 minimum	ASTM D 2671
Tensile strength*	psi ( <i>MPa</i> )	1800 minimum ( <i>12.4</i> )	ASTM D 2671,
Ultimate elongation*	percent	200 minimum	20" minute
Secant modulus* (expanded)	psi ( <i>MPa</i> )	2.5 x 10 <sup>4</sup> maximum ( <i>172</i> )	ASTM D 2671
Heat resistance 168 hours at 125°C (257°F) Followed by test for: Ultimate elongation			ASTM D 2671, 20"/minute
	percent	100 minimum	
<b>Electrical</b>			
Dielectric strength	volts/mil ( <i>volts/mm</i> )	500 minimum ( <i>19.680</i> )	ASTM D 2671
Dielectric withstand 3000V, 60Hz	sec	60 minimum	ASTM D 2671
<b>Chemical</b>			
Fluid resistance 24 hours at 23 ± 3°C (77 ± 5°F) Isopropyl alcohol 5% saline solution Disinfectant Followed by tests for: Dielectric strength			ASTM D 2671
	volts/mil ( <i>volts/mm</i> )	500 minimum ( <i>19.680</i> )	
Tensile strength	psi ( <i>MPa</i> )	1800 minimum ( <i>12.4</i> )	ASTM D 2671
Heavy metals analysis Cadmium Mercury Lead Bismuth Antimony	ppm	1 maximum (total of all metals)	USP XXII Physiochemical tests-plastic (Note 1)

\*Denotes lot acceptance test

Note 1: Sample preparation and extraction is per USP XXII. Metals analysis may be colorimetric as described in USP XXII or by equivalent quantitative analytical method.

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