MT5000
LDPE HEAT SHRINK TUBING

APPLICATIONS

- Strain relief applications

PROFILE

- Shrink ratio ≤ 4:1
- Full recovery at 110oC (230oF) minimum
- Supports sterilization environments: gamma and ethylene oxide (ETO)
- PFAS-free
- Custom sizing, colors, finishing and value-add options available
- Radiopacity can be customized
- Adhesive-layer option available

ABOUT

- MT5000 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 MT5000 essentially free from flaws, defects, pinholes, seams, cracks or inclusions
- MT5000 is flexible with a high shrink ratio making it a great option for strain relief applications

HEAT SHRINK TUBING — MT5000

TABLE 1: DIMENSIONS

Standard Sizes	As Supplied		Recovered							
	Inside Diameter (D) Minimum		Inside Diameter (d) Maximum		Wall Thickness (in., mm.) (W)					
					Minimum		Maximum		Nominal	
Size	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.
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

TABLE 2: PROPERTIES

Property	Unit	Requirement	Test Method
Physical			
Dimensions*	inches (mm)	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 (MPa)	5000 minimum (34.5)	ASTM D 2671, 20"/minute
Ultimate elongation*	percent	100 minimum	
Secant modulus* (expanded)	psi (MPa)	50,000 minimum	ASTM D 2671
Heat resistance 168 hours at 125°C (257°F) Followed by test for: Ultimate elongation	percent	100 minimum	ASTM D 2671, 20"/minute
Electrical			
Dielectric strength	kV/mm	500 minimum (19.680)	ASTM D 2671
Dielectric			
withstand 3000V, 60Hz	sec	60 minimum	ASTM D 2671
Chemical			
Fluid resistance 24 hours at 23 ± 3°C (77 ± 5°F) Isopropyl alcohol 5% saline solution Disinfectant			ASTM D 2671
Followed by tests for: Dielectric strength	kV/mm	500 minimum (19.680)	ASTM D 2671
Tensile strength	psi (MPa)	1800 minimum (12.4)	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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