

MT2000
HDPE HEAT SHRINK TUBING

APPLICATIONS

- Abrasion protection for electrosurgical devices
- High performance insulation for electrosurgical devices

PROFILE

- Shrink ratio ≤ 2.5:1
- Full recovery at 140°C (284°F) minimum
- Supports sterilization environments: gamma and ethylene oxide (ETO)
- PFAS-free
- Custom sizing, colors, finishing and value-add options available

ABOUT

- MT2000 is a crosslinked high density polyethylene (HDPE) heat shrink tubing and offers excellent abrasion protection and high performance insulation
- Its homogeneous structure (properties evenly distributed) contributes to its consistency and high performance, making our MT2000 essentially free from flaws, defects, pinholes, seams, cracks or inclusions
- MT2000 is semi-rigid and mechanically tough, with high insulating properties, making our MT2000 a great option for electrosurgical device applications protection for rigid laparoscopic and in-vivo instruments

HEAT SHRINK TUBING — MT2000

TABLE 1: DIMENSIONS

Standard Sizes	As Supplied		Recovered							
	Inside Diameter Minimum (D)		Inside Diameter Maximum (d)		Wall Thickness (W)					
					Minimum		Maximum		Normal	
Size	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.
1mm	.040	1.0	.018	0.45	.008	0.20	0.12	0.30	.010	0.25
2mm	.080	2.0	.032	0.80	.008	0.20	0.12	0.30	.010	0.25
3mm	.120	3.0	.048	1.20	.008	0.20	0.12	0.30	.010	0.25
6mm	.240	6.0	.096	2.4	.008	0.20	0.12	0.30	.010	0.25
10mm	.400	10.0	.160	4.0	.012	0.30	0.16	0.41	.014	0.36

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	60 minimum	ASTM D 2671
Tensile strength*	psi (MPa)	3000 minimum (20.7)	ASTM D 2671, 20"/minute
Ultimate elongation*	percent	200 minimum	
Secant modulus* (expanded)	psi (MPa)	5.0 x 104 minimum (344)	ASTM D 2671
Heat resistance 168 hours at 250 ± 5°C (482°F)			ASTM D 2671, 20"/minute
Followed by test for: Ultimate elongation	percent	200 minimum	
Electrical			
Dielectric strength	volts/mil (kV/mm)	1000 minimum (39.36)	ASTM D 2671
Dielectric withstand 3000V, 60Hz	sec	60 minimum	ASTM D 2671
Chemical			
Fluid resistance 24 hours at 23 ± 3°C (73 ± 5°F) Isopropyl alcohol 5% saline solution Disinfectant			ASTM D 2671
Followed by tests for: Dielectric strength	kV/mm	1000 minimum (39.36)	
Tensile strength	psi (MPa)	3000 minimum (20.7)	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 testNote

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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