



# MT2000 HDPE HEAT SHRINK TUBING

## APPLICATIONS

- Abrasion protection for electro-surgical devices
- High performance insulation for electro-surgical devices

## PROFILE

- Shrink ratio  $\leq 2.5:1$
- Full recovery at 140°C (284°F) minimum
- Supports sterilization environments: gamma and ethylene oxide (ETO)
- ISO 10993 biocompatibility tested
- Registered with the FDA: MAF-727
- 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 electro-surgical 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
<b>Physical</b>			
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	
<b>Electrical</b>			
Dielectric strength	volts/mil	1000 minimum (39.36)	ASTM D 2671
	(kV/mm)		
Dielectric withstand 3000V, 60Hz	sec	60 minimum	ASTM D 2671
<b>Chemical</b>			
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 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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