MT-2000
HDPE Heat Shrink Tubing

Applications

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

PROFILE

- Shrink ratio ≤ 3:1*
- Full recovery at 140°C (284°F) minimum
- Supports sterilization environments: gamma and ethylene oxide (ETO)
- Manufactured to ISO 10993 standards
- Registered with the FDA: MAF-727
- Custom sizing, colors, finishing and value-add options available
- Radiopacity can be customized

**Select sizes*

ABOUT

- MT-2000 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 MT-2000 essentially free from flaws, defects, pinholes, seams, cracks or inclusions.
- MT-2000 is semi-rigid and mechanically tough, with high insulating properties, making our MT-2000 a great option for electrosurgical device applications.

TABLE 1: DIMENSIONS

Standard Sizes	As Supplied		Recovered							
	Inside Diameter Minimum (D)		Inside Diameter Maximum (d)		Wall Thickness (W)					
					Minimum		Maximum		Nominal	
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 10^4 minimum *(344)*	ASTM D 2671
Heat resistance 168 hours at 250 ± 5°C (482°F) Followed by test for:			ASTM D 2671, 20″/minute
Ultimate elongation	percent	200 minimum	
Electrical Dielectric strength	volts/mil *(volts/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 (77 ± 5°F) Isopropyl alcohol 5% saline solution Disinfectant			ASTM D 2671
Followed by tests for: Dielectric strength	volts/mil *(volts/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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