

MEDICAL TUBING—MT2000

Raychem Modified, Medical Grade, Polyolefin, Heat Shrinkable Tubing

ABOUT MT2000

MT2000 is a 2.5:1 heat shrinkable, crosslinked high density polyolefin (HDPE) tubing product. The product is intended for medical field applications that demand a high level of performance and consistency. It is nearly homogenous and essentially free from flaws, defects, pinholes, seams, cracks or inclusions. The product will recover to a predetermined size upon application of heat in excess of 140°C (347°F). MT2000 can be designed and manufactured with color, an adhesive layer, as radio-opaque, and as dual wall to meet custom application requirements.

Additional advantages include:

- Product is compliant to: RoHS, USP class VI biocompatibility
- Supports sterilization environments: gamma, ethylene oxide (EO)
- Product maintains registration at the FDA through the master file system: MAF-727
- Manufactured to ISO 10993 standards

Typical Surgical Applications

- Broad application product for protection and insulation for surgical devices
- High performance insulation for electrosurgical instruments
- Mechanically tough for protection of delicate high value devices
- Meets thin wall requirements for surgical applications

Unique Raychem Medical Tubing Product Properties

- Top performing insulator among Raychem medical tubing
- Maintains lubricity in dry and wet environments
- Semi-rigid product

To order product samples, please visit www.te.com/medical.

Medical Tubing—MT2000

Raychem Modified, Medical Grade, Polyolefin, Heat Shrinkable Tubing

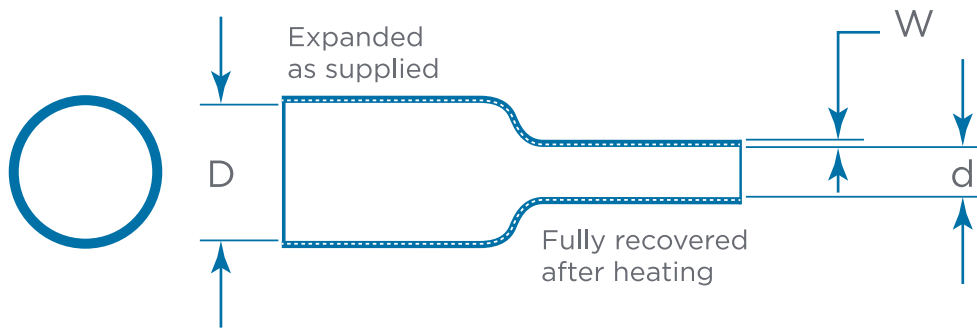


TABLE 1: DIMENSIONS

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

To order product samples, please visit www.te.com/medical.

Medical Tubing—MT2000

Raychem Modified, Medical Grade, Polyolefin, Heat Shrinkable Tubing

TABLE 2: PROPERTIES

Property	Unit	Requirement	Test Method
Physical			
Dimensions*	inches (<i>mm</i>)	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 (<i>MPa</i>)	3000 minimum (<i>20.7</i>)	ASTM D 2671, 20"/minute
Ultimate elongation*	percent	200 minimum	
Secant Modulus* (expanded)	psi (<i>MPa</i>)	5.0 x 10 ⁴ minimum (<i>344</i>)	ASTM D 2671
Heat resistance 168 hours at 250 ± 5°C (482°F) Followed by test for: Ultimate elongation			ASTM D 2671, 20"/minute
	percent	200 minimum	
Electrical			
Dielectric strength	volts/mil (<i>volts/mm</i>)	1000 minimum (<i>39.36</i>)	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 Followed by tests for: Dielectric strength			ASTM D 2671
	volts/mil (<i>volts/mm</i>)	1000 minimum (<i>39.36</i>)	
Tensile strength	psi (<i>MPa</i>)	3000 minimum (<i>20.7</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.

To order product samples, please visit www.te.com/medical.

Medical Tubing—MT2000

Raychem Modified, Medical Grade, Polyolefin, Heat Shrinkable Tubing

TE's MEDICAL GLOBAL SUPPORT

USA:	1-800-468-2023
Canada:	1-905-470-4425
Mexico:	1-800-733-8926
Central America:	52 55 1106 0803
Latin/South America:	54 11 4733 2200
Germany/ Switzerland/Austria:	49 6151 607 1999
UK/Ireland:	49 896 089 184
Europe/Middle East/ Africa:	44 800 267 666
China:	86 400 860 6670
Japan:	81 44 844 8041
Korea:	82 2 3415 4543
Singapore:	65 659 05300

te.com

TE Connectivity, TE, TE connectivity (logo) and Raychem are trademarks.

© 2016 TE Connectivity Ltd. family of companies All Rights Reserved.

08/16 Original

TE's MEDICAL BUSINESS

Contact us

10025 SW Freeman Dr
Wilsonville, OR 97070

Tel: 1-800-468-2023
1-503-685-9300

Fax: 1-503-685-9305

www.te.com