

MEDICAL TUBING—MT5510

Raychem Highly Flexible Heat Shrinkable Tubing

ABOUT MT5510

MT5510 is a 2:1 to 4:1 heat shrinkable, crosslinked medical grade Ethylene-based copolymer (EMA) tubing product. The product is designed specifically 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 110°C (230°F). This tubing material supports print and other value-add bonding applications. MT5510 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
- Supports sterilization environments: gamma, ethylene oxide (ETO)
- Manufactured to ISO 10993 standards

Typical Product Applications

- Product is designed to meet high flexibility design applications
- Abrasion protection and electro insulation for surgical instruments
- Strain relief applications

Unique Raychem Medical Tubing Product Properties

- Very flexible
- Low temperature recovery (110°C)
- Low durometer (55D)
- Good insulation performance

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

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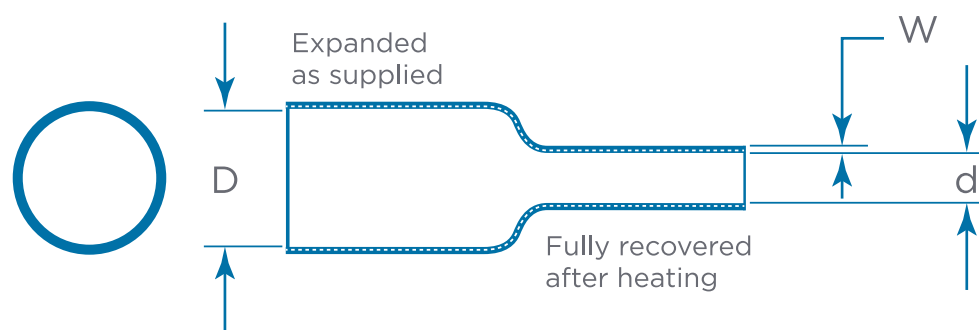


TABLE 1: DIMENSIONS

Standard Sizes	As Supplied		Recovered							
	Inside Diameter Minimum (D)		Inside Diameter Maximum (d)		Wall Thickness (in., mm.) (W)					
Size	in.	mm.	in.	mm.	Minimum	Maximum			Nominal	
3/64	0.046	1.17	0.023	0.58	0.013	0.33	0.019	0.48	0.016	0.41
1/16	0.063	1.60	0.031	0.79	0.014	0.36	0.020	0.51	0.017	0.43
3/32	0.093	2.36	0.046	1.17	0.017	0.43	0.023	0.58	0.020	0.51
1/8	0.125	3.18	0.062	1.57	0.017	0.43	0.023	0.58	0.020	0.51
3/16	0.187	4.75	0.093	2.36	0.017	0.43	0.023	0.58	0.020	0.51
1/4	0.250	6.35	0.125	3.18	0.022	0.56	0.028	0.71	0.025	0.64
3/8	0.375	9.53	0.187	4.75	0.022	0.56	0.028	0.71	0.025	0.64
1/2	0.500	12.70	0.250	6.35	0.022	0.56	0.028	0.71	0.025	0.64
3/4	0.750	19.05	0.375	9.53	0.027	0.69	0.033	0.84	0.030	0.76

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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	70 minimum	ASTM D 2671
Tensile strength*	psi (<i>MPa</i>)	1800 minimum (<i>12.4</i>)	ASTM D 2671, 20"/minute
Ultimate elongation*	percent	200 minimum	
Secant modulus* (expanded)	psi (<i>MPa</i>)	2.5×10^4 maximum (<i>172</i>)	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	volts/mil (<i>volts/mm</i>)	500 minimum (<i>19.680</i>)	ASTM D 2671
Dielectric withstand 3000V, 60Hz	sec	60 minimum	ASTM D 2671

*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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TE's MEDICAL GLOBAL SUPPORT

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