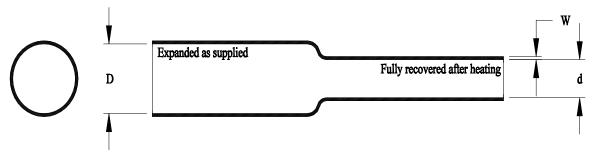
Altera[™] MT2000 Modified, Medical Grade, Polyolefin, Heat - Shrinkable Tubing



This specification covers the requirements for one type of single wall, electrical insulating, extruded tubing whose diameter will reduce to a predetermined size upon application of heat in excess of 140° C (284°F).

The tubing is fabricated from modified polyolefin crosslinked by irradiation. It shall be homogenous and essentially free from flaws, defects, pinholes, seams, cracks or inclusions.

The tubing is fabricated from materials which meet the requirements of U.S. Pharmacopeia Class VI Plastics. Color shall be black or clear unless otherwise specified.

Table 1: <u>Dimensions</u>

	As Su	pplied	Recovered									
Size	Inside D Minim	iameter um (D)	ll l				Wall Thickness(Inches, Millimeters) (W)					
	mm.	in.	mm.	in.	Minimum		Maximum		Nominal			
1mm	1.0	.040	0.45	.018	.008	0.20	.012	0.30	.010	.25		
2mm	2.0	.080	0.80	.032	.008	0.20	.012	0.30	.010	.25		
3mm	3.0	.120	1.20	.048	.008	0.20	.012	0.30	.010	.25		
6mm	6.0	.240	2.4	.096	.008	0.20	.012	0.30	.010	.25		
10mm	10.0	.400	4.0	.160	.012	0.30	.016	0.41	.014	.36		

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Specification Control Drawing

Title: Altera MT2000
Modified, Medical Grade, Polyolefin,
Heat - Shrinkable Tubing

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time. Users should evaluate the suitability of the product for their application

Cage Code: Scale: Size: Rev. Date: Rev.: 06090 None A 11MAY11 B1

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 None
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Table 2: Properties

Property	Unit	Requirement	Test Method
PHYSICAL		_	
* Dimensions	Inches (mm)	In accordance with Table 1	
* Longitudinal Change	Percent	0, -10	ASTM D 2671
* Concentricity as supplied	Percent	60 minimum	ASTM D 2671
Tensile Strength	PSI (MPa)	3000 minimum <i>(20.7)</i>	ASTM D 2671,
Ultimate Elongation	Percent	200 minimum	2"/minute
Secant Modulus	PSI (MPa)	5.0 x 10 ⁴ minimum <i>(344)</i>	ASTM D 2671
Heat Resistance			
168 hours at 125℃ (257 ℉)			
Followed by test for:			ASTM D 2671,
Ultimate Elongation	Percent	200 minimum	2"/minute
ELECTRICAL			
Dielectric Strength	Volts/mil	1000 minimum (39.36)	ASTM D 2671
	(volts/mm)		
Dielectric Withstand			
3000V, 60 Hz	sec	60 minimum	ASTM D 2671
CHEMICAL			
Fluid Resistance			ASTM D 2671
24 hours at 23 ± 3℃ (77 ± 5年)			
Isopropyl Alcohol			
5% Saline Solution			
Cidex**			
Followed by tests for:			
Dielectric Strength	Volts/mil	1000 minimum (39.36)	ASTM D 2671
	(volts/mm)		
Tensile Strength	PSI (MPa)	3000 minimum (20.7)	ASTM D 2671
Heavy Metals Analysis	ppm	1 maximum	USP XXII
Cadmium		(total of all metals)	Physicochemical
Mercury			Tests-Plastics
Lead			(Note 1)
Bismuth			
Antimony			

^{*} 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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