



APPLICATIONS

- Abrasion protection for surgical and in-vivo instruments
- Strain relief applications

MT3000 PVDF HEAT SHRINK TUBING

PROFILE

- Shrink ratio ≤ 3:1
- Full recovery at 150°C (302°F) minimum
- Supports sterilization environments: gamma, ethylene oxide (ETO), steam, dry heat and autoclave
- Manufactured to ISO 10993 standards
- Registered with the FDA: MAF-472
- Custom sizing, colors, finishing and value-add options available
- Radiopacity can be customized

ABOUT

- MT3000 is a crosslinked polyvinylidene fluoride (PVDF) heat shrink tubing. PVDF offers excellent chemical and abrasion resistance, high dielectric strength and superior tensile strength. Its homogeneous structure (properties evenly distributed) contributes to its consistency and high performance, making our MT3000 essentially free from flaws, defects, pinholes, seams, cracks or inclusions
- MT3000 is semi-lubricious and more flexible than our other PVDF heat shrink tubing. MT3000 offers abrasion protection for surgical and in-vivo instruments

TABLE 1: DIMENSIONS

	As Su	As Supplied		Recovered								
Standard Sizes	Inside Diameter (D)		Inside Diameter (d)		Wall Thickness (in., mm.) (W)							
	Minii	Minimum		Maximum		Minimum		Maximum		Nominal		
Size	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.		
3/64	.046	1.17	.023	0.58	.008	0.20	0.12	0.31	.010	0.25		
1/16	.063	1.60	.031	0.79	.008	0.20	0.12	0.31	.010	0.25		
3/32	.093	2.36	.046	1.17	.008	0.20	0.12	0.31	.010	0.25		
1/8	.125	3.18	.062	1.58	.008	0.20	0.12	0.31	.010	0.25		
3/16	.187	4.75	.093	2.36	.008	0.20	0.12	0.31	.010	0.25		
1/4	.250	6.35	.125	3.18	.009	0.28	0.15	0.38	.012	0.33		
3/8	.375	9.53	.187	4.75	.009	0.28	0.15	0.38	.012	0.33		
1/2	.500	12.70	.250	6.35	.009	0.28	0.15	0.38	.012	0.33		

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	70 minimum	ASTM D 2671	
Tensile strength*	psi (MPa)	5000 minimum (34.5)	ASTM D 2671, 20"/minute	
Ultimate elongation*	percent	100 minimum		
Secant modulus* (expanded)	psi (MPa)	50,000 minimum	ASTM D 2671	
Heat resistance 168 hours at 250 ± 5°C (482°F) Followed by test for: Ultimate elongation	percent	50 minimum	ASTM D 2671, 20"/minute	
Electrical				
Dielectric strength	kV/mm	500 minimum (19.680)	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	kV/mm	400 minimum (15.760)	ASTM D 2671	
Tensile strength	psi (MPa)	3500 minimum (24.1)	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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