



J. M. Engineering Co.

PRODUCTS

Heat Shrink Sleeves PTFE Teflon Tubing



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WF

PTFE Teflon tubing

Specially designed for protecting applications in extreme electrical
Chemical and thermal environment



Features

- Chemical inert
- High temperature resistance
- Continuous operating
- Temperature: -65 -200
- Corrosion resistance(acid/alkali resistance,
chemical reagents oil-proof)
- High pressure resistance
- Standard: UL224 VW-1 C-UL CSA22.20FT
- UL file number: E203950

Dimensions

Size AWG	Expanded	External Diameter			Standard Package M/Spool
	Internal Diameter mm	(S)	(T)	(L)	
30	0.30±0.10	0.80±0.10	0.70±0.10	0.60±0.10	305
28	0.38±0.10	0.88±0.10	0.78±0.10	0.68±0.10	305
26	0.46±0.10	0.96±0.10	0.86±0.10	0.76±0.10	305
24	0.56±0.10	1.16±0.10	1.06±0.10	0.86±0.10	305
23	0.66±0.10	1.26±0.10	1.16±0.10	0.96±0.10	305
22	0.71±0.10	1.31±0.10	1.21±0.10	1.01±0.10	305
21	0.81±0.10	1.41±0.10	1.31±0.10	1.11±0.10	305
20	0.86±0.10	1.66±0.10	1.46±0.10	1.16±0.10	305
19	0.96±0.20	1.76±0.20	1.56±0.20	1.26±0.20	200
18	1.07±0.20	1.87±0.20	1.67±0.20	1.37±0.20	200
17	1.19±0.20	1.99±0.20	1.79±0.20	1.49±0.20	200
16	1.34±0.20	2.14±0.20	1.94±0.20	1.64±0.20	153
15	1.50±0.20	2.30±0.20	2.10±0.20	1.80±0.20	153
14	1.68±0.20	2.48±0.20	2.28±0.20	2.08±0.20	100
13	1.93±0.20	2.73±0.20	2.53±0.20	2.33±0.20	100
12	2.16±0.25	2.96±0.25	2.76±0.25	2.56±0.25	100
11	2.41±0.25	3.21±0.25	3.01±0.25	2.81±0.25	150
10	2.86±0.25	3.49±0.25	3.29±0.25	3.09±0.25	150
9	3.00±0.25	4.00±0.25	3.80±0.25	3.40±0.25	150
8	3.38±0.25	4.38±0.25	4.18±0.25	3.78±0.25	100
7	3.76±0.25	4.76±0.25	4.56±0.25	4.16±0.25	100
6	4.22±0.25	5.22±0.25	5.02±0.25	4.80±0.25	100
5	4.72±0.25	5.72±0.25	5.52±0.25	5.32±0.25	50
4	5.28±0.30	6.28±0.30	6.08±0.30	5.88±0.25	50
3	5.94±0.30	6.94±0.30	6.74±0.30	6.54±0.25	1.00
2	6.68±0.30	7.68±0.30	7.48±0.30	7.28±0.25	1.00
1	7.46±0.30	8.46±0.30	8.26±0.30	8.06±0.25	1.00
0	8.38±0.30	9.38±0.30	9.18±0.30	8.98±0.25	1.00

Technical Data

Property	Method Test	Standard
Tensile Strength(MPa)	ASTMD 2671	25
Elongation(%)	ASTMD 2671	300
Flammability	VW-1	Pass
Dielectric strength(kV/mm)	IEC 60243	26
Volume resistivity(.cm)	IEC 60093	1X10 ¹⁴



RSFR-TFE

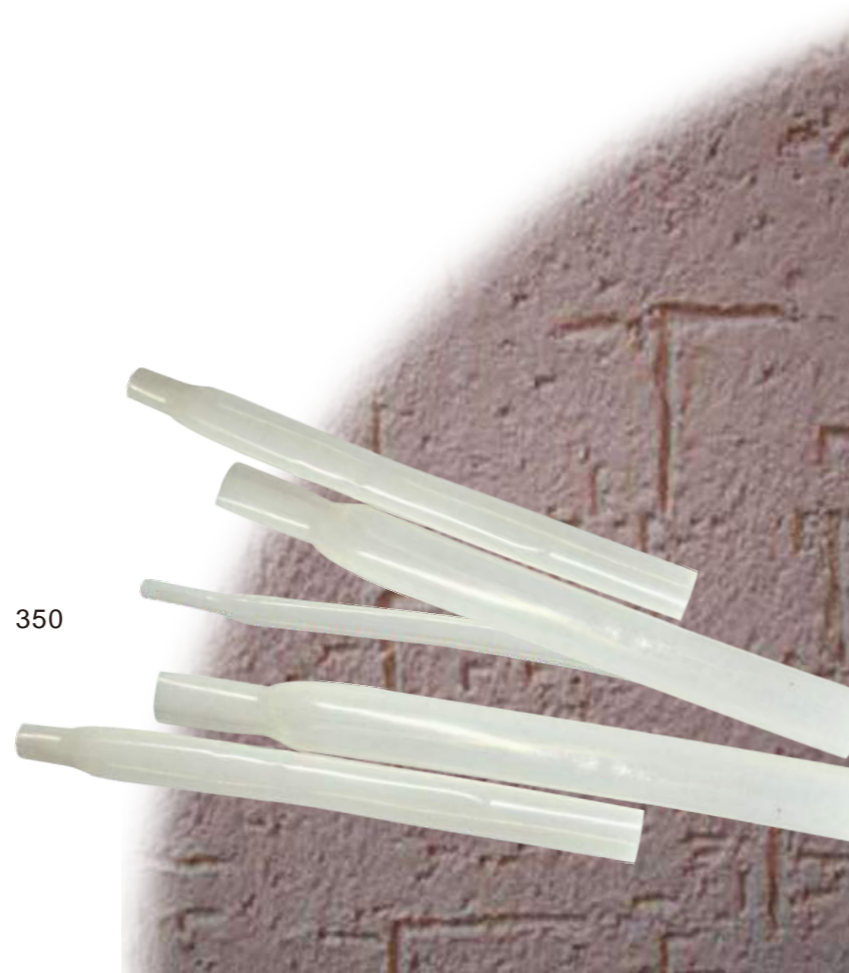
Heat Shrink Teflon Tubing

Heat Shrink Teflon Tubing can be widely used in science & technology field, such as chemistry, mechanical industries, astronautic industry, vehicles, transformers, communications, etc



Features

- High performance for anti-corrosion (anti-acid/alkali/chemical/oil)
- High voltage resistant
- Operating Temperature: -65 - 200
- Standard color: Clear
- Shrink ratio: 1.7:1, shrink temperature: 350



Dimensions

Size (mm)	Expanded	Recovered		Standard Package (m/spool)	Round/Flat
	Internal Diameter (mm)	Internal Diameter (mm)	Wall Thickness (mm)		
1.0	1.0±0.2	0.6	0.20±0.05	200	Round
1.5	1.5±0.2	0.9	0.20±0.05	200	Round
2.0	2.0±0.2	1.3	0.20±0.05	200	Round
2.5	2.5±0.2	1.5	0.20±0.05	200	Round
3.0	3.0±0.2	1.8	0.20±0.05	200	Round
3.5	3.5±0.2	1.8	0.20±0.05	100	Round
4.0	4.0±0.3	2.0	0.25±0.05	100	Round
4.5	4.5±0.3	2.5	0.25±0.05	100	Round
5.0	5.0±0.3	2.8	0.25±0.05	100	Round
6.0	6.0±0.3	3.0	0.25±0.05	100	Round
7.0	7.0±0.3	3.8	0.25±0.05	100	Round
8.0	8.0±0.3	4.0	0.25±0.05	1	Flat
9.0	9.0±0.3	4.0	0.30±0.05	1	Flat
10.0	10.0±0.3	4.8	0.30±0.05	1	Flat
11.0	11.0±0.3	5.0	0.30±0.05	1	Flat
12.0	12.0±0.3	5.8	0.30±0.05	1	Flat
13.0	13.0±0.3	6.4	0.35±0.05	1	Flat
14.0	14.0±0.3	6.4	0.35±0.05	1	Flat
15.0	15.0±0.3	7.0	0.40±0.05	1	Flat
16.0	16.0±0.3	7.5	0.40±0.05	1	Flat

8.0
8.5
9.0

Technical Data

Property	Method Test	Typical Performance
Tensile Strength(MPa)	ASTMD 2671	19
Elongation(%)	ASTMD 2671	200
Cold impact (-65)	ASTMD 2671 Method C	No cracking
Flammability	ASTMD 2671	VW-1
Dielectric strength(kV/mm)	VDE 0303 Part2	26
Volume resistivity(.cm)	VDE 0303 Part2	1.0X10 ¹⁴



Dimensions

Size		Expanded	Recovered		Standard Package M/Spool	Round/Flat
Inch	mm	Internal Diameter (mm)	Internal Diameter (mm)	Wall Thickness (mm)		
3/64	1.2	1.2	0.6	0.25±0.05	200	Round
1/16	1.6	1.6	0.8	0.25±0.05	200	Round
3/32	2.4	2.4	1.2	0.25±0.05	200	Round
1/8	3.2	3.2	1.6	0.25±0.05	200	Round
3/16	4.8	4.8	2.4	0.25±0.05	100	Round
1/4	6.4	6.4	3.2	0.30±0.05	100	Round
3/8	9.5	9.5	4.8	0.30±0.05	50	Round
1/2	12.7	12.7	6.4	0.30±0.05	50	Round
3/4	19.1	19.1	9.5	0.42±0.05	50	Round
1	25.4	25.4	12.7	0.50±0.05	50	Round
1-1/2	38.1	38.1	19.1	0.50±0.05	50	Round

Note: 3:1 shrink ratio is available upon request

Property	Test Method	Typical Performance
Tensile Strength(MPa)	ASTM D 2671	30
Elongation(%)	ASTM D 2671	150
Tensile	250 X168hr	100
Cold Bend	No cracking	220
Flammability	ASTM D 2671	VW-1
Volume resistivity(.cm)	IEC 60093	10 ¹⁴

RSFR-VDF175

THIN WALL PVDF Heat Shrink Tubing

Transparent, thin wall PVDF (polyvinylidene fluoride) heat shrink tubing ideal for electronic, automotive and military applications requiring protection and see-through inspection in aggressive environments



Features

- 2:1 shrink ratio
- Long term resistance to diesel, hydraulic fluids and chemicals
- Semi-rigid
- Flame retardant
- High abrasion and cut resistance
- Continuous operating temperature:-55 - 175
- Fully shrink temperature:175
- Meets 23053/18



RSFR-VT200

Thin Wall Fluoroelastomer Heat Shrink Tubing

Thin wall Viton fluoroelastomer heat shrink tubing suitable for use in electronic systems and components in automotive, military/ aerospace and industrial applications requiring outstanding heat and fluid resistance.



Features

- 2:1 shrink ratio
- High withstand to corrosive fluids in extreme temperatures
- Flame retardant
- Very flexible
- Easy to stamped
- Continuous operating temperature:-55 - 200
- Fully shrink temperature:175
- Meets 23053/13

Dimensions

Size		Expanded	Recovered		Standard Package M/Spool	Round/Flat
Inch	mm	Internal Diameter (mm)	Internal Diameter (mm)	Wall Thickness (mm)		
3/32	2.4	2.4	1.2	0.70±0.20	200	Round
1/8	3.2	3.2	1.6	0.75±0.20	200	Round
3/16	4.8	4.8	2.4	0.89±0.20	100	Round
1/4	6.4	6.4	3.2	0.89±0.20	100	Round
3/8	9.5	9.5	4.8	0.89±0.20	50	Flat
1/2	12.7	12.7	6.4	0.89±0.20	25	Flat
3/4	19.0	19.0	9.5	1.07±0.30	25	Flat
1	25.4	25.4	12.7	1.25±0.30	25	Flat
1-1/2	38.1	38.1	19.0	1.40±0.30	25	Flat
2	50.8	51.0	25.4	1.65±0.30	15	Flat

Note: 3:1 shrink ratio is available upon request

Technical Data

Property	Test Method	Standard	Typical Performance
Tensile Strength(MPa)	ASTM D2671	8.5	10.0
Elongation(%)	ASTM D2671	250	300
Tensile Strength after aging (MPa)	UL224 158 X168hr	7.3	8.5
Elongation after aging(%)	UL224 158 X168hr	200	250
Dielectric strength(kV/mm)	IEC 60243	15	17.5
Volume resistivity(.cm)	IEC 60093	1X10 ⁹	2.5X10 ⁹
Flammability	UI224 VW-1	Pass	Pass