

PTFE TUBING

PTFE-S/PTFE-T/PTFE-L

● Overview

Name	Fire Resistance Rating	Application	Working Temperature
PTFE S PTFE T PTFE L	VW-1 (200°C) 600V/300V/150V	Suitable for harsh chemical and high-temperature environments, providing insulation and mechanical protection. Particularly used for contamination and corrosion of hydraulic pipes and probe heads. It has good mechanical strength and an extremely low coefficient of friction.	-60°C to 200°C



Key Properties:

- High flame resistance.
- High insulating performance.
- Excellent resistance to chemical agents.
- Compliance with ROHS, REACH, and Sony environmental standards and requirements.

● Specifications

Item	Test Method	Unit	Value
Density	ASTM D792	g/cm ³	2.16
Tensile Strength	ASTM D638	MPa	24.5
Elongation at Break	ASTM D638	%	350
Flexural Strength	ASTM D790	MPa	490
Impact Strength	ASTM D256+23°C-54°C J/m	—	-No Break- 107
Hardness	ASTM D2240	Shore D	55
Dynamic Coefficient of Friction	—	—	0.1
Melting Point	—	°C	327
Fire Resistance Rating	UL-224	—	VW-1
Dielectric Constant at 10 ³ -10 ⁶ Hz	ASTM D150	—	2.1
Dissipation Factor at 10 ⁶ Hz	ASTM D150	—	0.0002
Arc Resistance	ASTMD495 (Stainless Steel Electrodes)	S	> 300
Volume Resistivity	ASTM D257	Ω-cm	>10 ¹⁸
Weather Resistance	Weather-o-meter (2000h)	—	No cracking
Solvent Resistance	ASTM D543	—	Excellent
Chemical Resistance	ASTM D543	—	Excellent

● Order Info

Color	Standard	Clear
	Non-standard	Other colors
Size	Special size and color are available on request.	
Packaging	Spool (Coil)	
Order	Please note the product name, size, and color on the order.	

● Standard Size

Size	Inner diameter (mm)	S (Standard) Wall Type	T (Thin) Wall Type	L (Light) Wall Type
		Outer Diameter (mm)	Outer Diameter (mm)	Outer Diameter (mm)
AWG 30	0.30	0.76	0.76	0.60
AWG 28	0.38	0.84	0.84	0.68
AWG 26	0.46	0.92	0.92	0.76
AWG 24	0.56	1.16	1.06	0.86
AWG 23	0.66	1.26	1.16	0.96
AWG 22	0.71	1.31	1.21	1.01
AWG 21	0.81	1.41	1.31	1.11
AWG 20	0.86	1.66	1.46	1.16
AWG 19	0.96	1.76	1.56	1.26
AWG 18	1.07	1.87	1.67	1.37
AWG 17	1.19	1.99	1.79	1.49
AWG 16	1.34	2.14	1.94	1.64
AWG 15	1.50	2.30	2.10	1.80
AWG 14	1.68	2.48	2.28	2.08
AWG 13	1.93	2.73	2.53	2.33
AWG 12	2.16	2.96	2.77	2.56
AWG 11	2.41	3.21	3.01	2.81
AWG 10	2.69	3.49	3.29	3.09
AWG 9	3.00	4.00	3.76	3.40
AWG 8	3.38	4.38	4.14	3.78
AWG 7	3.76	4.76	4.52	4.16
AWG 6	4.22	5.22	4.98	4.72
AWG 5	4.72	5.72	5.48	5.22
AWG 4	5.28	6.28	6.04	5.78
AWG 3	5.94	6.94	6.70	6.44
AWG 2	6.68	7.68	7.44	7.18
AWG 1	7.46	8.46	8.22	7.96
AWG 0	8.38	9.38	9.14	8.88

Custom sizes and specifications beyond the list are available on request.