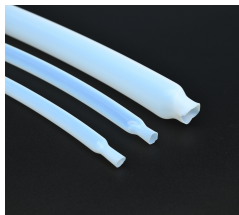
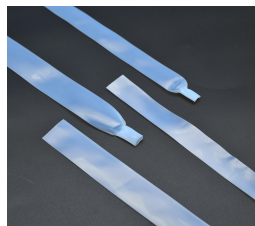


# PTFE HEAT SHRINK TUBING

## GD-PTFE

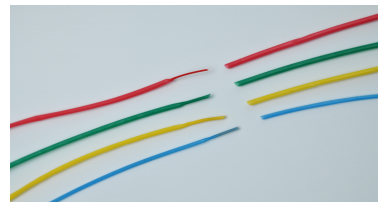
### ● Overview

Name	Fire Resistance Rating	Application	Shrink Temperature	Working Temperature
GD-PTFE	VW-1 UL&C-UL No: E515658	Military industry, electrical and electronic, high-speed rail, transportation, new energy vehicles, nuclear power, aerospace, and medical.	Initial shrinking temperature: 380°C Finished shrinking temperature: 450°C	-60°C to 260°C



### Key Properties:

- Shrinking Ratio: 1.7:1 & 2:1 & 4:1
- High environmental protection level.
- suitable for medical use.
- Compliant with ROHS, REACH, and FDA requirements.
- Great chemical resistance.
- High flame resistance, meets VW-1 requirements.



### ● Specifications

Item	Test Method	Value
Density (g/cm <sup>3</sup> )	ASTM D792	2.16
Tensile Strength (MPa)	ASTM D638	24.5
Elongation at Break (%)	ASTM D638	350
Flexural Strength (MPa)	ASTM D790	490
Impact Strength	ASTM D256+23°C-54°C J/m	-No Break- 107
Hardness (Shore D)	ASTM D2240	55
Dynamic Coefficient of Friction	— —	0.1
Melting Point (°C)	— —	327
Working Temperature 20000h with 50% Retention of Ultimate Elongation (°C)	— —	260
Fire Resistance Rating	UL-224	VW-1
Dielectric Constant at 10 <sup>3</sup> -10 <sup>6</sup> Hz)	ASTM D150	2.1
Dissipation Factor at 10 <sup>6</sup> Hz	ASTM D150	0.0002
Arc Resistance (S)	ASTM D495 (Stainless Steel Electrodes)	>300
Volume Resistivity (Ω·cm)	ASTM D257	>10 <sup>18</sup>
Weather Resistance	"Weather-O-Meter" (2000h)	No cracking
Solvent Resistance	ASTM D543	Excellent
Chemical Resistance	ASTM D543	Excellent

## ● Standard Size (Ratio 1.7:1&2:1)

Size	ID before Shrinking(mm)	Average Wall Thickness(mm)		ID after Shrinking(mm)	Wall Thickness after Shrinking(mm)	
		L (Light) Type	T (Thin) Type		L (Light) Type	T (Thin) Type
Φ 0.5	0.5±0.2	0.10±0.05	0.15±0.05	≤0.40	0.15±0.05	0.25±0.05
Φ 0.8	0.8±0.2	0.10±0.05	0.15±0.05	≤0.48	0.15±0.05	0.25±0.05
Φ 1.0	1.0±0.2	0.10±0.05	0.15±0.05	≤0.66	0.15±0.05	0.25±0.05
Φ 1.5	1.5±0.2	0.10±0.05	0.20±0.05	≤0.97	0.15±0.05	0.25±0.05
Φ 2.0	2.0±0.2	0.10±0.05	0.20±0.05	≤1.32	0.15±0.05	0.30±0.05
Φ 2.5	2.5±0.3	0.10±0.05	0.20±0.05	≤1.65	0.15±0.05	0.30±0.05
Φ 3.0	3.0±0.3	0.15±0.05	0.20±0.05	≤1.83	0.20±0.05	0.30±0.05
Φ 3.5	3.5±0.3	0.15±0.05	0.20±0.05	≤2.05	0.20±0.05	0.30±0.05
Φ 4.0	4.0±0.3	0.15±0.05	0.20±0.05	≤2.31	0.20±0.05	0.30±0.05
Φ 4.5	4.5±0.3	0.15±0.05	0.20±0.05	≤2.57	0.20±0.05	0.30±0.05
Φ 5.0	5.0±0.3	0.15±0.05	0.20±0.05	≤3.1	0.20±0.05	0.30±0.05
Φ 6.0	6.0+0.5/-0.2	0.15±0.05	0.25±0.05	≤3.8	0.25±0.05	0.35±0.05
Φ 7.0	7.0+0.5/-0.2	0.18±0.05	0.25±0.05	≤4.2	0.25±0.05	0.35±0.05
Φ 8.0	8.0+0.5/-0.2	0.18±0.05	0.25±0.05	≤4.8	0.25±0.05	0.35±0.05
Φ 9.0	9.0+0.7/-0.2	0.18±0.05	0.25±0.05	≤5.3	0.25±0.05	0.35±0.05
Φ 10	10.0+0.7/-0.2	0.2±0.05	0.25±0.05	≤6.2	0.25±0.05	0.35±0.05
Φ 11	11+0.7/-0.2	0.2±0.05	0.25±0.05	≤6.3	0.25±0.05	0.35±0.05
Φ 12	12+0.7/-0.2	0.2±0.05	0.25±0.05	≤6.95	0.25±0.05	0.35±0.05
Φ 13	13+0.7/-0.2	0.2±0.05	0.25±0.05	≤7.7	0.25±0.05	0.35±0.05
Φ 14	14+0.7/-0.2	0.2±0.05	0.25±0.05	≤8.3	0.25±0.05	0.35±0.05
Φ 15	15+0.7/-0.2	0.2±0.05	0.25±0.05	≤8.8	0.25±0.05	0.35±0.05
Φ 16	16+0.7/-0.2	0.2±0.05	0.25±0.05	≤9.4	0.25±0.05	0.35±0.05

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

## ● Standard Size (Ratio 4:1)

Size	Expanded ID (mm) before Shrinking	Recoverd ID (mm) after Shrinking	Wall Thickness before Shrinking	Wall Thickness after Shrinking	Packaging (meters/roll)
3.0	3.0+0.8/-0.2	≤0.75	0.10±0.05	0.3±0.05	100
3.5	3.5+0.8/-0.2	≤0.87	0.10±0.05	0.3±0.05	100
4.0	4.0+0.8/-0.2	≤1.00	0.10±0.05	0.3±0.05	100
4.5	4.5+0.8/-0.2	≤1.12	0.10±0.05	0.3±0.05	100
5.0	5.0+0.8/-0.2	≤1.25	0.10±0.05	0.3±0.05	100
5.5	5.5+0.8/-0.2	≤1.37	0.10±0.05	0.3±0.05	100
6.0	6.0+0.8/-0.2	≤1.50	0.10±0.05	0.3±0.05	100
7.0	7.0+0.8/-0.2	≤1.75	0.10±0.05	0.3±0.05	100
8.0	8.0+0.8/-0.2	≤2.00	0.10±0.05	0.3±0.05	100
9.5	9.5+0.8/-0.2	≤2.37	0.10±0.05	0.3±0.05	100

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