

Special Heat Shrink Parts

S5-PVDF-150 150°C Flexible PVDF Heat Shrink Tube

Application

A flame-retardant, flexible, very thin wall insulation tube. Suitable for applications requiring high-temperature performance, outstanding abrasion and cut-through resistance, superior chemical and solvent resistance properties. Transparent tubing for easy see-through inspection.

Feature

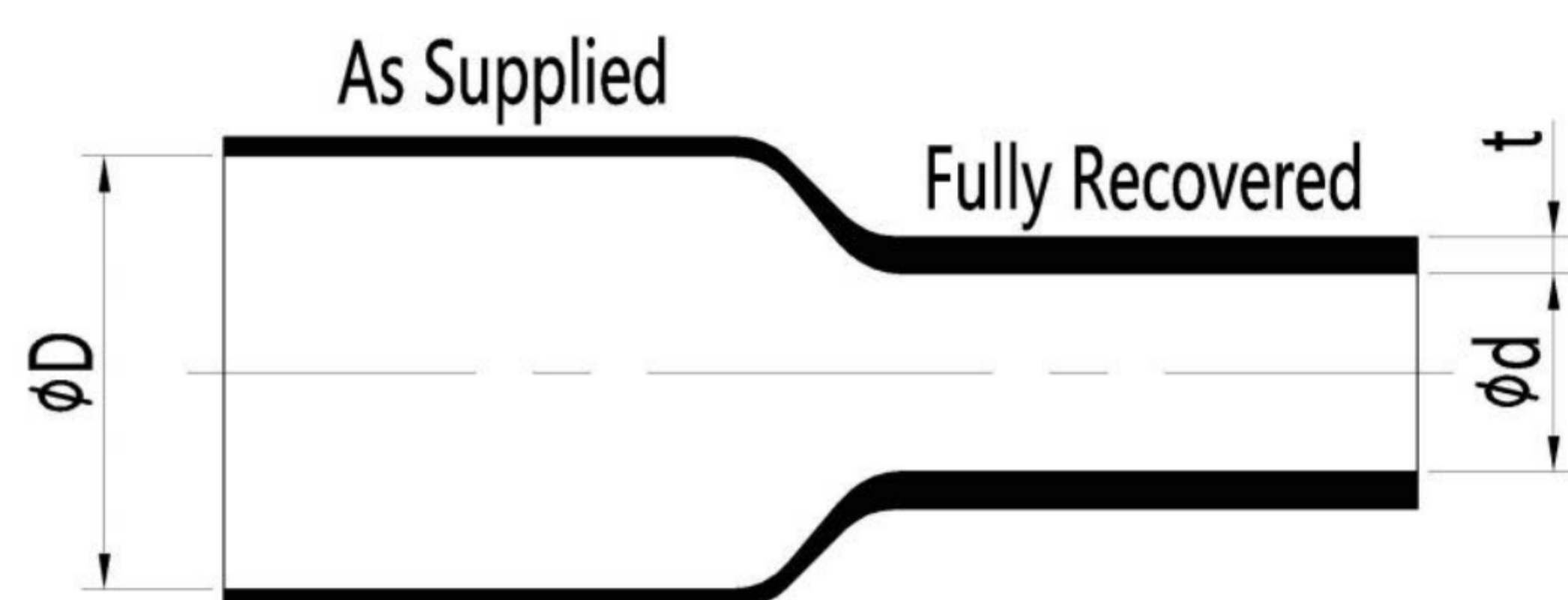
- Operating temperature: -55 to 150°C
- Minimum full recovery temperature: 175°C
- Environmental friendly, RoHS compliant
- Shrink ratio: 2:1
- Standard Color: Clear
- Excellent flame retardant

Dimension

Part No. S5-PVDF-150	As supplied(mm)	After recovered (mm)	
	Inner diameter D (min.)	Inner diameter d (max.)	Wall thickness t (nom.)
1.2/0.6	1.2	0.6	0.25
1.6/0.8	1.6	0.8	0.25
2.4/1.2	2.4	1.2	0.25
3.2/1.6	3.2	1.6	0.25
4.8/2.4	4.8	2.4	0.25
6.4/3.2	6.4	3.2	0.30
9.5/4.8	9.5	4.8	0.30
12.7/6.4	12.7	6.4	0.30
19.1/9.5	19.1	9.5	0.43
25.4/12.7	25.4	12.7	0.48
38.1/19.1	38.1	19.1	0.51
50.8/25.4	50.8	25.4	0.58

Ordering Note: Please order according to "model-specification-color", such as S5-PVDF-150-9.5/4.8-X

Color: Clear (-X) standard, Black (-0), White (-9) optional



Technical Data

Property	Test Method	Requirement
Density	ASTM D2671	≤1.90 g/cm ³
Longitudinal Change	ASTM D2671	-10% to +5%
Tensile strength	ASTM D2671	≥24.5 MPa
Ultimate elongation	ASTM D2671	≥300%
Secant modulus (expanded)	ASTM D2671	172 MPa to 690 MPa
Clarity Stability (175°C/24h)	ASTM D2671	The markings in the sample are clearly visible
Low-temperature flexibility (-55°C/4h)	ASTM D2671	No cracking
Heat shock (275°C/4h)	ASTM D2671	No dripping, flowing or cracking
Heat resistance (225°C/168h)	ASTM D2671	
Ultimate elongation		≥100%
Dielectric strength	ASTM D2671	≥15.7 kV/mm
Volume resistivity	ASTM D2671	≥1 × 10 ¹¹ Ω · cm
Water absorption (23°C/24h)	ASTM D2671	≤0.5%
Copper corrosion (160°C/16h)	ASTM D2671	No corrosion
Flammability (Average Time of Burning)	UL224	≤15 seconds
Fungus Resistance	ASTM G21	Rating less than 1
Fluid Resistance	ASTM D2671	
24 hours at 23 ± 3°C (73 ± 5°F)		
JP-8 Fuel (MIL-T-83133)		
Hydraulic Fluid (MIL-PRF-5606)		
Lubricating Oil (MIL-L-7808)		
Lubricating Oil (MIL-L-23699)		
5% NaCl (A-A-694)		
Deicing fluid (AMS 1424)		
Tensile strength		≥24.5 Mpa
Ultimate elongation		≥250%
Dielectric Strength		≥15.8 kV/mm