

Heat Shrink for Automotive Parts

S3T-W3F2 Flexible Adhesive Lined Polyolefin Heat-shrinkable Tubing

Introduction

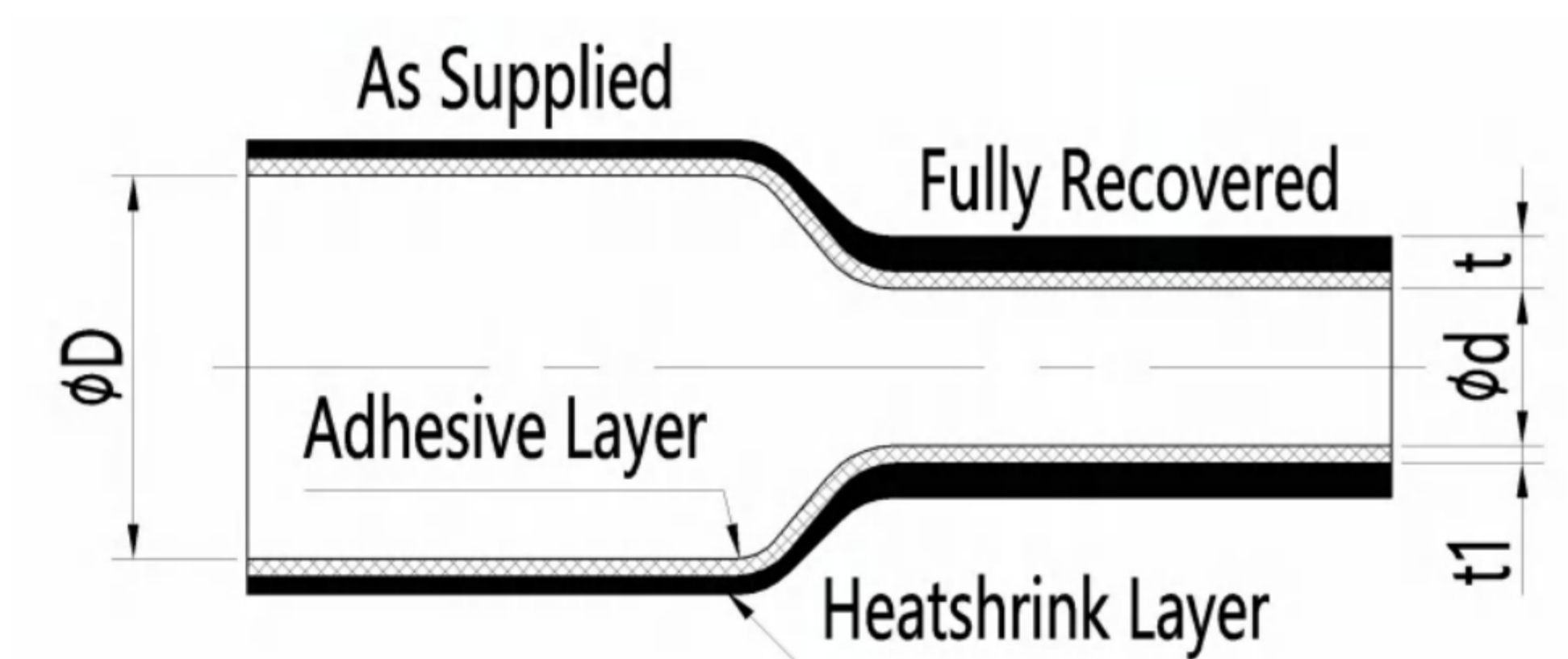
Low temperature shrinkage, flame retardant, hot melt adhesive lining, soft polyolefin double wall heat shrinkable tube, suitable for applications requiring insulation, corrosion resistance and mechanical stress relief, including connectors, wiring harnesses, electronic components, etc.

Features

- Operating temperature: -55 ~125°C
- Shrink ratio: 3:1
- Minimum full recovery temperature: 110 °C
- Standard color: Black
- Environmentally friendly, ELV & RoHS compliant

Dimensions

Part No. S3T-W3F2	As supplied (mm)	After recovered (mm)		
	Inner diameter D (min.)	Inner diameter d (max.)	Wall thickness t (nom.)	Adhesive Wall thickness t1 (nom.)
3.2/1.0	3.2	1.0	1.0	0.4
4.8/1.6	4.8	1.6	1.1	0.5
6.4/2.1	6.4	2.1	1.2	0.5
7.9/2.6	7.9	2.6	1.2	0.5
9.5/3.2	9.5	3.2	1.3	0.6
12.7/4.2	12.7	4.2	1.4	0.7
15.0/5.0	15.0	5.0	1.5	0.7
19.1/6.0	19.1	6.0	1.7	0.8
25.4/8.0	25.4	8.0	1.9	0.9



Technical Data

Property	Test method	Requirement
Longitudinal change	ASTM D2671	≥-10%
Tensile strength	ASTM D2671	≥10.4 MPa
Ultimate elongation	ASTM D2671	≥200%
Heat aging (158°C/168h)	ASTM D2671	
Tensile strength		≥7.3 MPa
Ultimate elongation		≥100%
Water absorption (23°C/24h)	ASTM D570	≤0.5%
Low-temperature flexibility (-30°C/1h)	ASTM D2671	No cracking
Heat shock (250°C/4h)	ASTM D2671	No cracking, dripping or flowing of outer jacket
Dielectric strength	ASTM D3032	≥12 kV/mm
Volume resistivity	ASTM D2671	≥1 × 10 ¹⁴ Ω · cm
Dielectric Voltage Withstand	AC 2500V, 60S	No breakdown
Dielectric breakdown	ASTM D2671	≥2500 V
Heat aging (158°C/168h)	ASTM D2671	
Dielectric Voltage Withstand	AC 2500V, 60S	No breakdown
Dielectric breakdown		≥2500 V and 50% minimum of unaged specimens
Flammability (outer layer, colors only)	UL224	All tubing pass
Copper corrosion (158°C/168h)	ASTM D2671	No corrosion