

Heat Shrink for Automotive Parts

S3T-AF Flexible Polyolefin Dual Wall Heat Shrinkable Tube

Introduction

Flexible polyolefin, flame-retardant, dual-wall heat shrink tubing used to seal and protect connector backshells, branch-off points, and transitions from connectors to cables at high temperatures. With high shrink ratios, it provides excellent protection for various sizes and irregular shapes.

Features

- Operating temperature: -55 to 125°C
- Minimum full recovery temperature: 110°C
- Environmental friendly, RoHS & ELV compliant
- Shrink ratio: 3:1 & 4:1
- Standard Color: Black

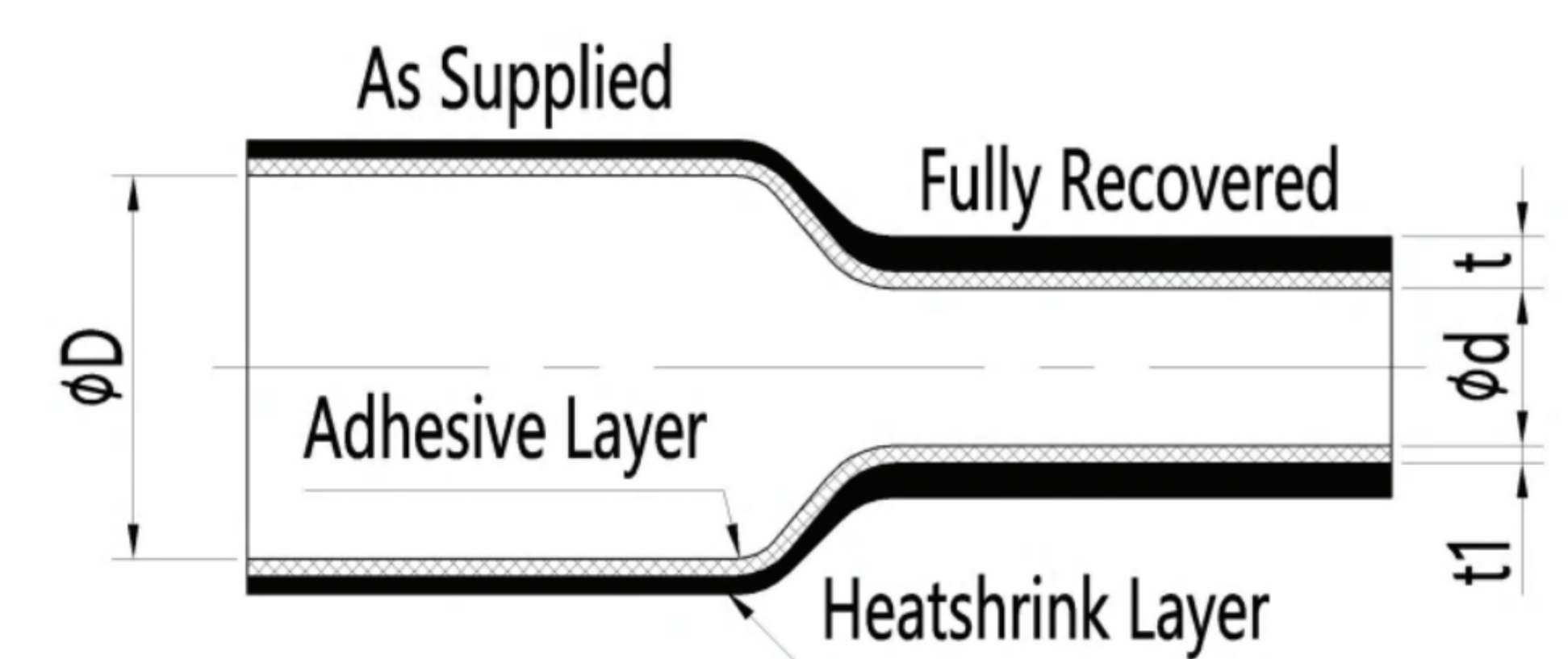


Dimension

Part No. S3TA-AF	As supplied(mm)	After recovered (mm)		
	Inner diameter D (min.)	Inner diameter d (max.)	Wall thickness t (nom.)	Adhesive Wall thickness t1 (nom.)
Shrink ratio: 4:1				
4/1	4.0	1.0	1.0	0.5
8/2	8.0	2.0	1.2	0.5
12/3	12.0	3.0	1.4	0.6
16/4	16.0	4.0	1.7	0.7
24/6	24.0	6.0	2.2	0.8
32/8	32.0	8.0	2.4	1.0
52/13	52.0	13.0	2.5	1.0

Shrink ratio: 3:1

3.2/1.0	3.2	1.0	1.0	0.5
4.8/1.6	4.8	1.6	1.0	0.5
6.4/2.1	6.4	2.1	1.2	0.5
7.9/2.6	7.9	2.6	1.3	0.6
9.5/3.2	9.5	3.2	1.4	0.6
12.7/4.2	12.7	4.2	1.7	0.7
15/5	15.0	5.0	1.8	0.7
19.1/6	19.1	6.0	2.2	0.8
25.4/8	25.4	8.0	2.4	1.0
30/10	30.0	10.0	2.5	1.0
39/13	39.0	13.0	2.5	1.0



Technical Data

Property	Test Method	Requirement
Longitudinal change	ASTM D2671	≥ -10%
Tensile Strength	ASTM D2671	≥ 10.4MPa
Ultimate Elongation	ASTM D2671	≥ 300%
Secant modulus 2% (Outer layer / recovered)	ASTM D2671	≤ 172MPa
Low-temperature flexibility (-55°C/4h)	ASTM D2671	No cracking
Heat shock (225°C/4h)	ASTM D2671	No cracking, dripping or flowing (outer jacket)
Heat Aging (150°C/168h)	ASTM D2671	No cracking, dripping or flowing (outer jacket)
Dielectric strength	ASTM D2671	≥ 12kV/mm
Volume resistivity	ASTM D2671	≥ 1.0 × 10 ¹⁴ Ω.cm
Water absorption (23°C/24h)	ASTM D2671	≤ 0.5%
Flammability (outer layer, colors only)	ASTM D2671 method C	Self-extinguishing within 60S
Copper corrosion (150°C/16h)	ASTM D2671	No corrosion
Inner wall adhesion:	ASTM D2671	
Peel strength to XLPE		≥ 90N/25mm
Peel strength to steel		≥ 80N/25mm
Fluid resistance	ISO37 (23°C/24h)	
Tensile Strength	Diesel fuel (BS 2869 Class A1)	≥ 7.0MPa
Ultimate Elongation	Hydraulic fluid (MIL-H-5606)	≥ 100%
	Lubricating oil (O-149)	≥ 100%

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