



Heat Shrink for Automotive Parts

S3TA Flame Retardant Dual Wall Heat Shrink Tube

Introduction

A soft, flame-retardant (colors), double-wall adhesive polyolefin heat-shrinkable tube, suitable for waterproof sealing and insulation protection of automotive wiring harness wire connectors, terminals and components; Length can be customized

Features

- Operating temperature: -40~105 °C
- Shrink ratio: 3:1 & 4:1
- Minimum full recovery temperature: 125 °C
- Standard color: Black & Clear
- Environmentally friendly, ELV & RoHS compliant

Dimensions

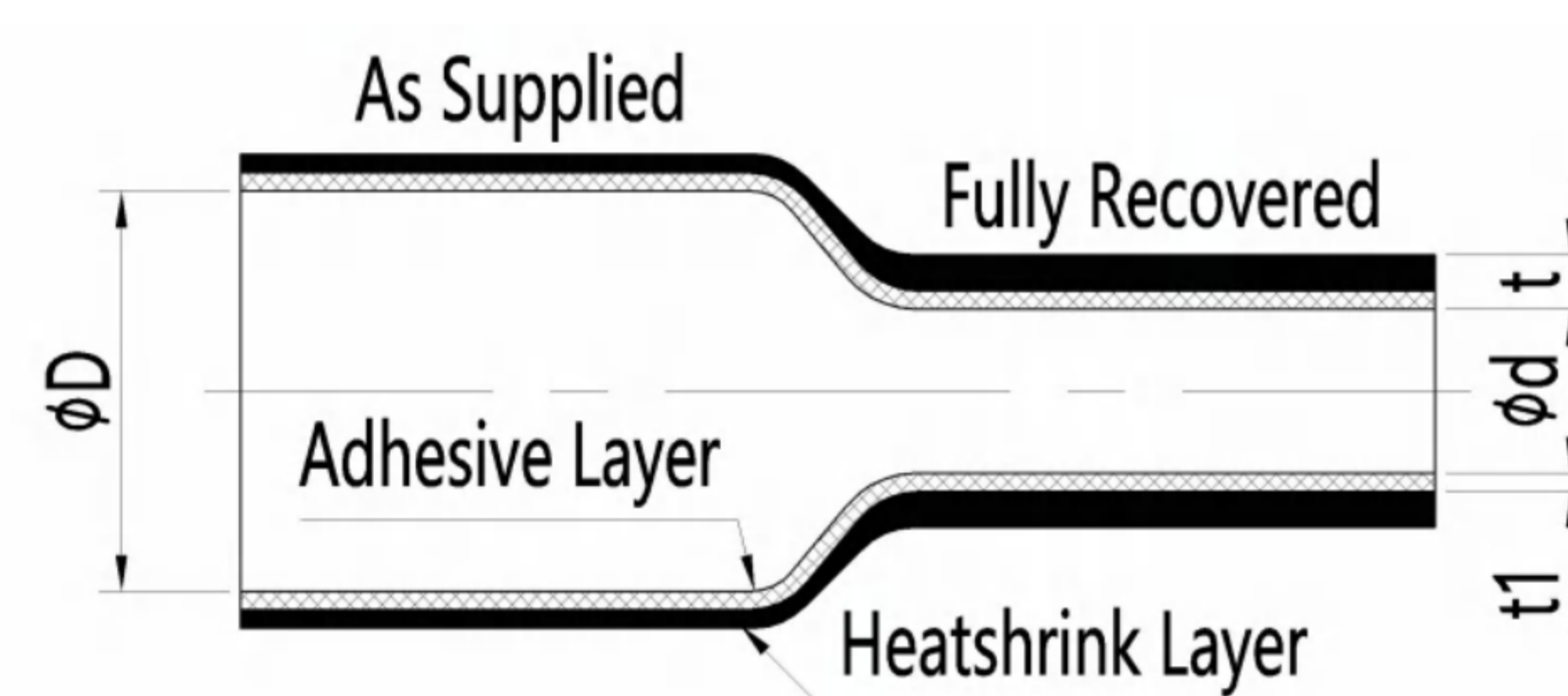
Part No. S3TA	As supplied (mm)		After recovered (mm)		
	Inner diameter D (min.)	Wall thickness T (nom.)	Inner diameter d (max.)	Wall thickness t (nom.)	Adhesive Wall thickness t1 (nom.)

Shrink ratio 4:1

4.0/1.0	4.0	0.45	1.0	1.0	0.5
6.0/1.5	6.0	0.60	1.5	1.4	0.7
8.0/2.0	8.0	0.60	2.0	1.6	0.9
9.0/2.3	9.0	0.65	2.3	1.8	1.0
11.0/2.4	11.0	0.65	2.4	2.0	1.1
12.0/3.0	12.0	0.80	3.0	2.2	1.2
14.0/3.5	14.0	0.80	3.5	2.3	1.3
16.0/4.0	16.0	0.80	4.0	2.4	1.4
18.0/4.5	18.0	0.80	4.5	2.6	1.4

Shrink ratio 3:1

3.2/1.0	3.2	0.45	1.0	1.0	0.45
4.8/1.6	4.8	0.50	1.6	1.1	0.5
6.4/2.1	6.4	0.50	2.1	1.2	0.5
7.9/2.6	7.9	0.50	2.6	1.3	0.6
9.5/3.2	9.5	0.50	3.2	1.4	0.6
12.7/4.2	12.7	0.60	4.2	1.6	0.7
15.0/5.0	15.0	0.65	5.0	1.8	0.8
19.1/6.0	19.1	0.70	6.0	1.9	0.8



Technical Data

Property	Test method	Requirement
Longitudinal change	ASTM D2671	≥-10%
Tensile strength	ASTM D2671	≥10.4 MPa
Ultimate elongation	ASTM D2671	≥300%
Heat Aging (136°C/168hrs)	ASTM D2671	
Tensile Strength		≥7.3 MPa
Ultimate Elongation		≥200%
Water absorption (23°C/24h)	ASTM D570	≤0.5%
Low-temperature flexibility (-40°C/4h)	ASTM D2671	No cracking
Heat shock (200°C/4hrs)	ASTM D2671	No cracking, dripping or flowing of outer jacket
Dielectric strength	ASTM D2671	≥12 kV/mm
Volume resistivity	ASTM D2671	≥1.0 × 10 ¹⁴ Ω.cm
Flammability (colors only)	ASTM D2671 method C	Self-extinguishing within 60S
Copper corrosion (136°C/16h)	ASTM D2671	No corrosion
Fluid resistance	ISO (23°C/24hrs)	
Tensile Strength	Diesel fuel (BS 2869 Class A1)	≥7.0 MPa
Ultimate Elongation	Hydraulic fluid (MIL-H-5606)	≥100%
	Lubricating oil (0-149)	