

Heat Shrink for Automotive Parts

A1-150 Wire Splice Dual Wall Heat Shrink Tube

Introduction

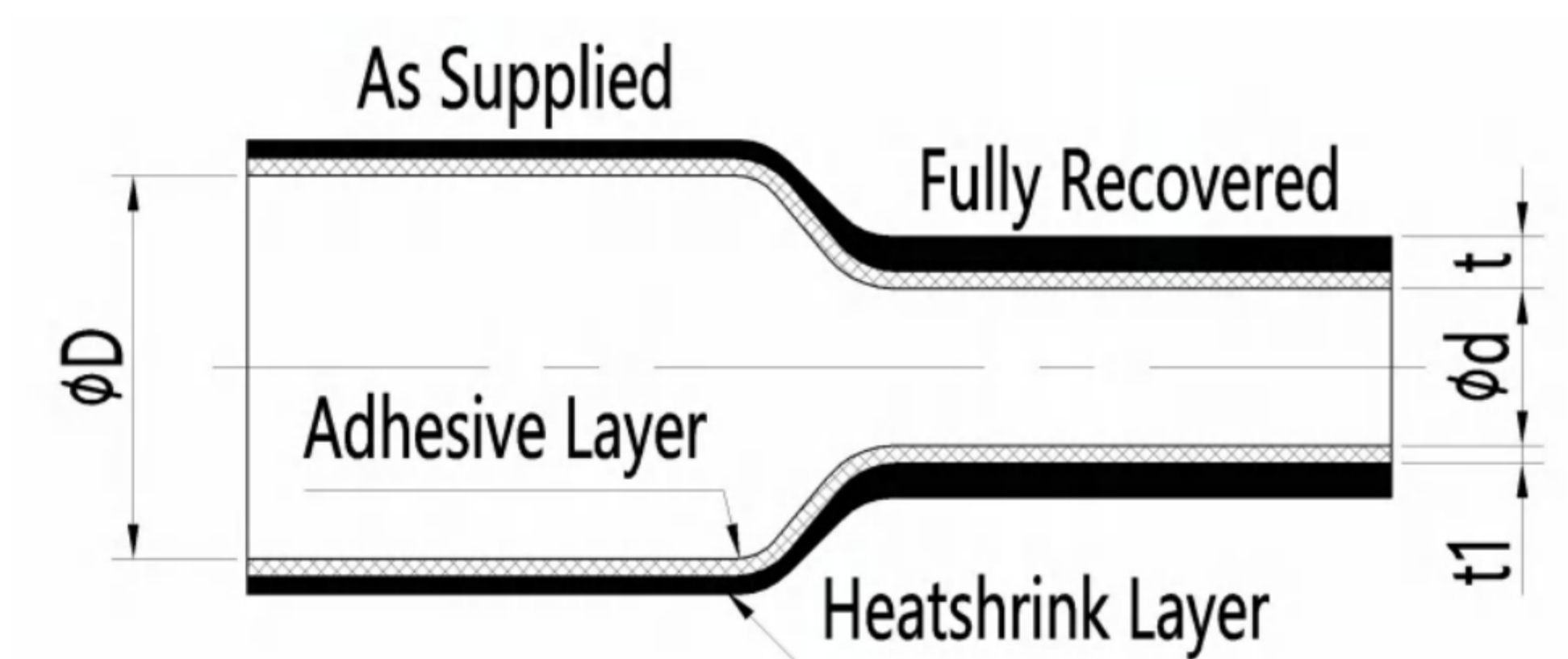
Semi-rigid polyolefin dual wall heat-shrinkable tube, high temperature resistance, high shrinkage rate, flame retardant, specially designed for insulation, stress relief and sealing of automobile wire joints and parts in the environment of automobile hood; Length can be customized.

Features

- Operating temperature: -40~150 °C
- Shrink ratio: 4:1
- Minimum full recovery temperature: 135 °C
- Standard color: Black
- Environmentally friendly, ELV & RoHS compliant

Dimensions

Part No. A1-150	As supplied (mm)	After recovered (mm)		
	Inner diameter D (min.)	Inner diameter d (max.)	Wall thickness t (nom.)	Adhesive Wall thickness t1 (nom.)
5.1	5.1	1.30	1.20	0.70
7.6	7.6	1.65	1.50	0.80
9.0	9.0	2.29	1.60	0.80
11.6	11.6	2.54	2.30	1.40
14.1	14.1	3.00	2.30	1.40
17.8	17.8	4.45	2.50	1.50
27.9	27.9	8.38	2.50	1.50



Technical Data

Property	Test method	Requirement
Material Properties		
Longitudinal change	ASTM D2671	$\geq -10\%$
Tensile strength	ASTM D2671	≥ 10.3 MPa
Ultimate elongation	ASTM D2671	$\geq 250\%$
Secant modulus 2% (Outer layer / recovered)	ASTM D2671	≥ 150 MPa
Heat shock (225°C/4h)	ASTM D2671	No cracking, dripping or flowing (outer jacket)
Dielectric strength (outer layer)	ASTM D2671	≥ 19.7 kV/mm
Volume resistivity	ASTM D2671	$\geq 1.0 \times 10^{13}$ $\Omega \cdot \text{cm}$
Flammability	ISO 6722-1	Self-extinguishing within 30s
Splice performance		
Current leakage	5% salt solution/24h, DC 50V	$\leq 0.25\mu\text{A}$
Thermal shock	-40°C to 135°C for 25 cycles	
Current leakage		$\leq 0.25\mu\text{A}$
Heat aging	1000 h at 150°C \pm 5°C	
Current leakage		$\leq 0.25\mu\text{A}$
Fluid immersion	24 hrs. at 25°C \pm 3°C	
Current leakage	ASTM Reference Fuel C VV-F-800 Diesel Fuel	$\leq 0.25\mu\text{A}$
	24hr. at 100°C \pm 3°C ASTM #3 Oil	$\leq 0.25\mu\text{A}$