Adhesive-lined Dual Wall Heat Shrinkable Tubing

· Heat-shrinkable Tubing Series



Description

Adhesive-lined dual wall heat shrinkable tubing is made with crosslinking modified polyolefin resin as external layer and hot-melt adhesive as internal layer, with shrinkage rates of 2:1, 3:1 and 4:1. Flexible, flame retardant and environment-friendly, with good waterproof and moisture-proof performance, meeting the standard of UL224 and passing VW-1 flame retardance grade. Widely used for waterproofing wiring of electronic equipment, sealing and fixing at wire branches, anti-corrosive protection of metallic pipelines, and preventing loose or come-off components such as underwater lamps, car oil pipes and high-end ship harnesses.

Product Features

- Flexible, Flame-retardant, Environment-friendly
- Good Waterproof & Moisture-proof Performance
- Min. Shrinkage 80℃, Min. Complete Shrinkage 125℃
- Conforms to UL224, VW-1 Flame Retardance (E180908)

Standard / Certification

UL224 · VW-1

Performance Indicators

item	Characteristics
Shrinkage temperature	110℃
Operating temperature	-55℃~125℃
Radial shrinkage rate	⩾50%
Changes in rate of vertical length	⩽10%
Tensile strength (Mpa)	⩾10.4
Elongation at break (%)	⩾200
Hot air aging test	158.0℃±1.0℃, 168h
Tensile strength after aging (Mpa)	⩾7.3
Elongation after aging (%)	⩾100
Volume resistivity (Ω·cm)	$\geqslant 10^{13}$
Pressure	2500V(60s), no breakdown
Flame retardance	VW-1
Water content (%)	⩽0.4
Resistance to solvents	Excellent
Softening point	120℃±5℃
Peel strength	>80N/25mm

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Specification

Size (Inch)	Min Inner Diameter (mm)	Wall Thickness (mm)	Max Inner Diameter (mm)	Total Wall (mm)	Plastic Layer (mm)
3/64	1.2	0.30	0.60	0.45±0.12	0.20
1/16	1.6	0.30	0.80	0.45±0.12	0.20
3/32	2.4	0.35	1.20	0.55±0.12	0.30
1/8	3.2	0.40	1.60	0.60±0.15	0.30
3/16	4.8	0.40	2.40	0.75±0.15	0.35
1/4	6.4	0.40	3.20	0.75±0.15	0.35
3/8	9.5	0.40	4.80	0.80±0.20	0.35
1/2	12.7	0.40	6.40	0.80±0.20	0.35
3/4	19.1	0.50	9.50	0.95±0.28	0.40
1	25.4	0.50	12.70	1.15±0.28	0.45
1-1/2	38.1	0.65	19.00	1.25±0.41	0.45
2	50.8	0.73	25.40	1.40±0.41	0.50

Size Specifications

Size (Inch)	Min Inner Diameter (mm)	Wall Thickness (mm)	Max Inner Diameter (mm)	Total Wall (mm)	Plastic Layer (mm)
1/8	3.2	0.40	1	0.85±0.25	0.35
3/16	4.7	0.40	1.5	1.05±0.25	0.45
1/4	6.4	0.45	2	1.10±0.25	0.45
3/8	9.5	0.60	3	1.45±0.25	0.45
1/2	12.7	0.60	4	1.50±0.55	0.45
3/4	19.1	0.75	6	2.00±0.45	0.65
1	25.4	0.75	8.4	2.00±0.55	0.65
1-1/4	30	0.80	10	2.20±0.55	0.75
1-1/2	40	0.85	13.7	2.50±0.55	1.00

Size Specifications (1/4 – 32/8)

Size (Inch)	Min Inner Diameter (mm)	Wall Thickness (mm)	Max Inner Diameter (mm)	Total Wall (mm)	Plastic Layer (mm)
1/4	4	0.40	1	1.00±0.28	0.020
8/2	8	0.40	2	1.10±0.28	0.020
12/3	12	0.50	3	1.40±0.28	0.024
16/4	16	0.60	4	1.78±0.38	0.030
24/6	24	0.75	6	2.25±0.55	0.030
32/8	32	0.80	8	2.54±0.55	0.040

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Size Specifications (3/64 – 2)

Size (Inch)	Min Inner Diameter (mm)	Wall Thickness (mm)	Max Inner Diameter (mm)	Total Wall (mm)	Plastic Layer (mm)
3/64	1.2	0.22	0.60	0.35±0.12	0.006
1/16	1.6	0.22	0.80	0.35±0.12	0.006
3/32	2.4	0.28	1.20	0.45±0.12	0.008
1/8	3.2	0.30	1.60	0.50±0.15	0.008
3/16	4.8	0.30	2.40	0.50±0.15	0.008
1/4	6.4	0.35	3.20	0.65±0.15	0.008
3/8	9.5	0.35	4.80	0.65±0.28	0.010
1/2	12.7	0.35	6.40	0.65±0.28	0.010
3/4	19.1	0.40	9.50	0.75±0.28	0.010
1	25.4	0.40	12.70	0.77±0.28	0.012
1-1/2	38.1	0.52	19.00	1.00±0.41	0.012
2	50.8	0.52	25.40	1.00±0.41	0.012

Notes

- Other sizes can be customized.

Product Advantages

- **Flexible, Flame-retardant, Environment-friendly**
  Flexible, flame-retardant and environment-friendly — suitable for various harness protection.
- **Waterproof & Moisture-proof**
  Hot-melt adhesive inner layer with good waterproof and moisture-proof performance, preventing components from coming loose.
- **High Flame Retardance**
  Conforms to UL224 standard, passes VW-1 flame retardance grade, authentication no. E180908.
- **Multiple Shrinkage Rates**
  Shrinkage rates of 2:1, 3:1 and 4:1 available for various requirements.

Application Scenarios

- **Electronic Equipment**
  Waterproofing wiring of electronic equipment.
- **Wire Branches**
  Sealing and fixing at wire branches.
- **Metallic Pipelines**
  Anti-corrosive protection of metallic pipelines.
- **Waterproof Protection**
  Preventing loose or come-off components such as underwater lamps, car oil pipes and high-end ship harnesses.