Halogen–Free Environment Friendly Heat Shrinkable Sleeve

· Heat–shrinkable Tubing Series

Description

Halogen–free environment–friendly heat shrinkable sleeve is made of crosslinking modified polyolefin resin. It is halogen–free, environment–friendly, low–smoke and flame–retardant, with excellent electrical insulation and high temperature & voltage resistance. Widely used in electronics, automotive, metro, construction, public facilities and more.

Product Features

- Halogen–free, RoHS & SONY Compliant, ULRSCS
- Flexible & Elastic
- Low Smoke, UL224 VW–1 & JQAF–mark Flame–retardant
- Excellent Insulation, UL224 125℃, 300V/600V
- UL1446 Insulation System DASH2B–5 Compatible



Standard / Certification

ROHS · UL224 · VW–1 · UL1446

Performance Indicators

item	Performance Parameters
Temperature rating	125℃
Longitudinal change	⩽±5%
Tensile strength (Mpa)	⩾10.4
Elongation at break (%)	⩾200
Hot air aging test	158℃±1.0℃, 168h
Tensile strength after aging (Mpa)	⩾7.3
Elongation after aging (%)	⩾100
Voltage rating (V)	300V, 600V
Volume resistivity (Ω·cm)	$\geqslant 10^{14}$
Pressure	2500V(60s), no breakdown
Flammability	VW–1
Thermal shock	No cracks
Concentricity (%)	⩾70

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Ultra–thin Wall Product Specifications

Spec (mm)	Inner Diameter (mm)	Wall Thickness (mm)	Inner Diameter (mm)	Wall Thickness (mm)
Φ0.6	0.8±0.2	0.12±0.06	≤0.35	0.25±0.06
Φ0.8	1.1±0.2	0.10±0.05	≤0.45	0.25±0.06
Φ1.0	1.5±0.3	0.10±0.05	≤0.60	0.25±0.06
Φ1.5	2.0±0.3	0.10±0.05	≤0.80	0.25±0.06
Φ2.0	2.5±0.3	0.13±0.06	≤1.25	0.28±0.06
Φ2.5	3.0±0.3	0.15±0.06	≤1.50	0.28±0.06
Φ3.0	3.5±0.3	0.15±0.06	≤1.75	0.30±0.06
Φ3.5	4.0±0.3	0.15±0.06	≤2.00	0.30±0.06
Φ4.0	4.5±0.3	0.15±0.06	≤2.25	0.30±0.06
Φ5.0	5.5±0.3	0.15±0.06	≤2.50	0.30±0.06
Φ6.0	6.5±0.4	0.15±0.06	≤3.00	0.30±0.06
Φ7.0	7.6±0.4	0.15±0.06	≤3.50	0.36±0.06
Φ8.0	8.6±0.4	0.18±0.08	≤4.00	0.36±0.08
Φ9.0	9.6±0.4	0.18±0.08	≤4.50	0.36±0.08
Φ10	10.6±0.4	0.18±0.08	≤5.00	0.36±0.08
Φ11	11.6±0.5	0.18±0.08	≤5.50	0.36±0.08
Φ12	12.6±0.5	0.18±0.08	≤6.00	0.36±0.08
Φ13	13.6±0.5	0.20±0.08	≤6.50	0.40±0.10
Φ14	14.6±0.5	0.20±0.08	≤7.00	0.40±0.10
Φ15	15.6±0.5	0.20±0.08	≤7.50	0.40±0.10
Φ16	16.6±0.5	0.20±0.08	≤8.00	0.40±0.10
Φ17	17.6±0.5	0.20±0.08	≤8.50	0.40±0.10
Φ18	18.7±0.5	0.20±0.08	≤9.00	0.40±0.10
Φ20	20.7±0.5	0.20±0.08	≤10.0	0.40±0.10
Φ22	22.7±0.5	0.20±0.08	≤11.0	0.40±0.10
Φ25	25.8±0.5	0.20±0.08	≤12.5	0.40±0.10
Φ30	31.0±0.5	0.20±0.08	≤15.0	0.48±0.10
Φ35	34.0±1.0	0.18±0.03	≤17.5	0.36±0.10

Spec (mm)	Inner Diameter (mm)	Wall Thickness (mm)	Inner Diameter (mm)	Wall Thickness (mm)
Φ0.6	0.8±0.2	0.16±0.08	≤0.40	0.26±0.06
Φ0.8	1.3±0.2	0.18±0.08	≤0.45	0.33±0.06
Φ1.0	1.5±0.2	0.18±0.08	≤0.60	0.36±0.06
Φ1.5	2.0±0.2	0.20±0.08	≤0.80	0.40±0.08
Φ2.0	2.5±0.2	0.20±0.08	≤1.00	0.42±0.08
Φ2.5	3.0±0.2	0.22±0.08	≤1.25	0.42±0.08
Φ3.0	3.5±0.3	0.25±0.10	≤1.50	0.46±0.08
Φ3.5	4.0±0.3	0.25±0.10	≤1.75	0.46±0.08
Φ4.0	4.5±0.3	0.25±0.10	≤2.00	0.48±0.08
Φ4.5	5.0±0.3	0.25±0.10	≤2.25	0.50±0.10
Φ5.0	5.5±0.4	0.25±0.10	≤2.50	0.50±0.10
Φ6.0	6.5±0.4	0.28±0.12	≤3.00	0.56±0.10
Φ6.5	7.0±0.4	0.28±0.12	≤3.25	0.56±0.10

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General Product Specifications

Φ7.0	7.5±0.4	0.30±0.12	≤3.50	0.58±0.10
Φ8.0	8.5±0.5	0.30±0.12	≤4.00	0.60±0.10
Φ9.0	9.5±0.5	0.30±0.12	≤4.50	0.60±0.10
Φ10	10.5±0.5	0.30±0.12	≤5.00	0.60±0.10
Φ11	11.5±0.5	0.30±0.12	≤5.50	0.60±0.10
Φ12	12.5±0.5	0.30±0.12	≤6.00	0.60±0.10
Φ13	13.5±0.5	0.36±0.12	≤6.50	0.65±0.12
Φ14	14.5±0.5	0.36±0.12	≤7.00	0.65±0.12
Φ15	15.5±0.5	0.36±0.12	≤7.50	0.65±0.12
Φ16	16.5±0.5	0.36±0.12	≤8.00	0.65±0.12
Φ17	17.5±0.5	0.36±0.12	≤8.50	0.65±0.12
Φ18	18.7±0.6	0.40±0.15	≤9.00	0.70±0.12
Φ20	20.7±0.6	0.40±0.15	≤10.0	0.75±0.15
Φ22	22.7±0.6	0.40±0.15	≤11.0	0.80±0.15
Φ25	25.7±0.7	0.40±0.15	≤12.5	0.90±0.15
Φ28	29.0±0.7	0.45±0.20	≤14.0	0.95±0.20
Φ30	31.0±0.7	0.45±0.20	≤15.0	0.95±0.20
Φ35	36.0±1.0	0.50±0.22	≤17.5	1.00±0.20
Φ40	41.0±1.0	0.55±0.25	≤20.0	1.10±0.25
Φ45	46.0±1.0	0.55±0.25	≤22.5	1.10±0.25
Φ50	51.5±1.5	0.60±0.25	≤26.0	1.20±0.25
Φ55	≥55	0.60±0.25	≤28.0	1.20±0.25
Φ60	≥60	0.60±0.25	≤30.0	1.20±0.25
Φ70	≥70	0.70±0.30	≤35.0	1.45±0.25
Φ80	≥80	0.70±0.30	≤40.0	1.45±0.25
Φ90	≥90	0.70±0.30	≤45.0	1.45±0.25
Φ100	≥100	0.70±0.30	≤50.0	1.45±0.25

General Product Specifications Notes

- It can be cut to a fixed length as required.

Product Advantages

- **Halogen–free, ULRSCS Certified**
  Halogen–free and environment–friendly, meeting RoHS and SONY standards, with environment–related substances continuously controlled by third parties and ULRSCS certification obtained.
- **Excellent Insulation & High Voltage Resistance**
  Passed UL224 125℃ certification with voltage ratings of 300V/600V — excellent electrical insulation.
- **UL1446 Insulation System Compatible**
  Passed the compatibility test of UL 1446 insulation system (the DASH2B–5 system of PD GEORGE CO/RIPLEY PESIN).
- **Low Smoke & Flame–retardant**
  Low smoke and flame–retardant, meeting UL224 VW–1 flame retardance grade and Japanese JQAF–mark flame retardance grade.
- **Flexible & Elastic**
  Soft and elastic, conforms tightly to cables for easy installation.

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Application Scenarios

- **Electronics**
  Insulation for electronic components and internal wires of electrical appliances.
- **Automotive**
  High-temperature insulation for automotive wiring harnesses and motor leads.
- **Metro**
  High-temperature and flame-retardant protection for metro vehicle cables.
- **Construction**
  Insulation and flame-retardant protection for building electrical wiring.
- **Public Facilities**
  Protection for electrical cables in public facilities.