

Heatshrink Adhesive Lined

pro-POWER

RoHS
Compliant

High Shrink Ratio, Adhesive Lined, Polyolefin Heat Shrink Tubing 3X and 4X



Characteristics:

| | |
|-------------------------|--|
| Operating Temperature | : -55°C to +125°C |
| Min. Shrink Temperature | : 70°C |
| Shrink Ratio | : 3:1 and 4:1 |
| Approvals | : UL224, 125°C 600V VW-1 (except clear) |
| Standard Colour | : Black (Other colours are also available on request) |

Applications

Manufactured by co-extrusion of polyolefin and hot-melt adhesive. Designed to provide both insulation and sealing for the protected items. Typically used for the protection of automotive wires, bundled wires and metal tubes against water and moisture. The high expansion ratio makes it possible to repair most damaged cable jackets without removing connectors.

Technical Data

| Property | Test Method | Typical Data |
|---------------------------------------|----------------|--------------------------|
| Tensile Strength | ASTM D 2671 | 10.4MPa |
| Ultimate Elongation (%) | ASTM D 2671 | 30 |
| Longitudinal Shrinkage (%) | UL 224 | 0 to -10 |
| Heat Aging Ultimate Elongation (%) | 158°C, 168hrs. | 200 |
| Flammability | VW-1 | Pass (outer jacket only) |
| Dielectric Strength (kv/mm) | IEC 243 | 20 |
| Volume Resistivity (Ω-cm) | UL224 | 1×10^{14} |
| Copper Stability | ASTM D 2671 | Pass |
| Corrosion | UL224 | No corrosion |

Dimensions: Heat Shrinkable Tubing of 3X

| Size | | As supplied (mm) | | | After Recovered (mm) | | | |
|------|------|------------------|--------------|-----------|----------------------|------------|--------------------|----------|
| Inch | mm | Min. I.D. | Average W.T. | O.D. | Max. I.D. | Total W.T. | Adhesive Thickness | O.D. |
| 1/8 | 3.2 | 3.2 | 0.3 ±0.08 | 3.6 ±0.2 | 1 | 0.95 ±0.08 | 0.35 ±0.08 | 2.9 ±0.2 |
| 3/16 | 4.8 | 4.8 | 0.46 ±0.08 | 5.7 ±0.2 | 1.6 | 1.1 ±0.08 | 0.4 ±0.08 | 3.8 ±0.2 |
| 1/4 | 6.4 | 6.4 | 0.5 ±0.08 | 7.4 ±0.2 | 2.2 | 1.2 ±0.08 | 0.45 ±0.08 | 4.6 ±0.2 |
| 5/16 | 7.9 | 7.9 | 0.52 ±0.08 | 8.9 ±0.2 | 2.7 | 1.35 ±0.08 | 0.5 ±0.08 | 5.4 ±0.2 |
| 3/8 | 9.5 | 9.5 | 0.55 ±0.08 | 10.6 ±0.2 | 3.2 | 1.45 ±0.08 | 0.5 ±0.08 | 6.1 ±0.2 |
| 1/2 | 12.7 | 12.7 | 0.68 ±0.08 | 14.1 ±0.2 | 4.2 | 1.7 ±0.08 | 0.5 ±0.08 | 7.6 ±0.2 |

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| Size | | As supplied (mm) | | | After Recovered (mm) | | | |
|-------|------|------------------|--------------|-----------|----------------------|------------|--------------------|-----------|
| Inch | mm | Min. I.D. | Average W.T. | O.D. | Max. I.D. | Total W.T. | Adhesive Thickness | O.D. |
| 5/8 | 15 | 15 | 0.70 ±0.1 | 16.4 ±0.2 | 5.2 | 1.8 ±0.1 | 0.55 ±0.1 | 8.8 ±0.2 |
| 3/4 | 19.1 | 19.1 | 0.76 ±0.1 | 20.6 ±0.2 | 6.3 | 2 ±0.1 | 0.55 ±0.1 | 10.3 ±0.2 |
| 1 | 25.4 | 25.4 | 0.78 ±0.1 | 27.0 ±0.2 | 8.5 | 2.1 ±0.1 | 0.55 ±0.1 | 12.7 ±0.2 |
| 1-1/4 | 30 | 30 | 0.80 ±0.1 | 31.6 ±0.2 | 10.2 | 2.2 ±0.1 | 0.6 ±0.1 | 14.6 ±0.2 |
| 1-1/2 | 39 | 39 | 0.85 ±0.1 | 40.7 ±0.2 | 13.5 | 2.4 ±0.1 | 0.6 ±0.1 | 18.3 ±0.2 |
| 2 | 50 | 50 | 0.95 ±0.1 | 51.9 ±0.2 | 17 | 2.7 ±0.1 | 0.7 ±0.1 | 22.4 ±0.2 |

Dimensions: Heat Shrinkable Tubing of 4X

| Size | | As supplied (mm) | | | After Recovered (mm) | | | | Part Number | |
|------|----|------------------|--------------|-----------|----------------------|------------|--------------------|-----------|-------------|-------|
| Inch | mm | Min. I.D. | Average W.T. | O.D. | Max. I.D. | Total W.T. | Adhesive Thickness | O.D. | | |
| - | 4 | 4 | 0.5 ±0.1 | 5.1 ±0.2 | 1 | 1 ±0.15 | 0.4 ±0.15 | 3 ±0.3 | HS400 | HS409 |
| - | 6 | 6 | 0.4 ±0.1 | 7.1 ±0.2 | 1.5 | 1.1 ±0.15 | 0.4 ±0.15 | 3.7 ±0.3 | HS401 | HS410 |
| - | 8 | 8 | 0.55 ±0.1 | 9.5 ±0.2 | 2 | 1.5 ±0.15 | 0.5 ±0.15 | 5 ±0.3 | HS402 | HS411 |
| - | 12 | 12 | 0.55 ±0.1 | 13.5 ±0.2 | 3 | 1.7 ±0.15 | 0.5 ±0.15 | 6.4 ±0.3 | HS403 | HS412 |
| - | 16 | 16 | 0.65 ±0.1 | 17.8 ±0.2 | 4 | 2 ±0.15 | 0.6 ±0.15 | 7 ±0.3 | HS404 | - |
| - | 20 | 20 | 0.65 ±0.1 | 22.4 ±0.2 | 5 | 2.3 ±0.25 | 0.6 ±0.15 | 9.6 ±0.3 | HS405 | - |
| - | 24 | 24 | 0.8 ±0.15 | 26.8 ±0.2 | 6 | 2.5 ±0.25 | 0.6 ±0.15 | 11 ±0.3 | HS406 | - |
| - | 32 | 32 | 0.9 ±0.15 | 35.2 ±0.2 | 8 | 2.8 ±0.3 | 0.7 ±0.15 | 13.6 ±0.3 | HS407 | - |
| - | 52 | 52 | 1 ±0.15 | 54 ±0.2 | 13 | 3 ±0.3 | 0.7 ±0.15 | 19 ±0.6 | HS408 | - |

Part Number Table

| Description | Part Number |
|--|-------------|
| Heatshrink, Black, 4mm, 1.2m | HS400 |
| Heatshrink, Sleeving, 6mm, 4:1 | HS401 |
| Heatshrink, Sleeving, 8mm, 4:1 | HS402 |
| Heatshrink, Sleeving, 12mm, 4:1 | HS403 |
| Heat Shrink, Black, 16mm, 1.2m | HS404 |
| Heatshrink, 20mm, Black, 1.2m | HS405 |
| Heat Shrink, Adhesive, Black, 24mm, 1.2m | HS406 |

| Description | Part Number |
|--|-------------|
| Heat Shrink, Adhesive, Black, 32mm, 1.2m | HS407 |
| Heatshrink, Sleeving, 52mm, 4:1 | HS408 |
| Heatshrink, Sleeving, 4mm, 4:1, 5m | HS409 |
| Heatshrink, Sleeving, 6mm, 4:1, 5m | HS410 |
| Heatshrink, Sleeving, 8mm, 4:1, 5m | HS411 |
| Heatshrink, Sleeving, 12mm, 4:1, 5m | HS412 |

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