

Dual Wall Tubing (4X)

Flexible, Outer Layer Flame Retardant, Heat Shrink

pro-POWER



RoHS
Compliant

Description

This is made from flexible polyolefin and hot melt glue through high technology co-extrusion. The outer flexible polyolefin has low shrink temperature and the low shrink point glue so has the advantage for water proof and mechanical strain buffer performances. It is widely applied for automotive wiring harnesses water proof, gas leak and drain; Multi-strand and wire branch harness waterproof.

Specifications

| | |
|----------------------------------|-------------------|
| Continuous Operating Temperature | : -45°C to +125°C |
| Full Recovery temperature | : 105°C |
| Minimum shrink temperature | : 60°C |
| Shrink Ratio | : 4:1 |
| Colour | : Black |
| Resistant to UV | |

Outer Layer - Technical Data

| Property | Test Method | Typical Data |
|------------------------------|---------------------|------------------------|
| Tensile Strength | ASTM D 2671 | ≥10.4MPa |
| Elongation | ASTM D 2671 | ≥300% |
| Tensile Strength after aging | UL 224 158°C×168hrs | ≥7.3MPa |
| Elongation After aging | UL 224 158°C×168hrs | ≥100% |
| Longitudinal Change | ASTM D 2671 | -8% to +8% |
| Flammability | SAE-AMS-DTL-23053/5 | 30s self-extinguish |
| Dielectric Strength | IEC 60243 | ≥15kV/mm |
| Volume Resistivity | IEC 60093 | ≥10 ¹⁴ Ω·cm |

Adhesive - Technical Data

| Property | Test Method | Typical Data |
|------------------------|-------------|--------------|
| Water absorption ratio | ASTM-D570 | ≤0.2% |
| Softening point | ASTM-D E28 | 85°C |
| Peel Strength (PE) | ASTM-D1000 | 120N/25m |
| Peel Strength (AL) | ASTM-D1000 | 80N/25m |

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Product Dimensions

| Part Number | Size | | As supplied | After recovery(mm) | | |
|-------------|------|----|-----------------------|--------------------|----------------------|--------------------|
| | Inch | mm | Internal Diameter(mm) | Internal Diameter | Total Wall Thickness | Adhesive thickness |
| PP001978 | 5/32 | 4 | ≥4 | ≤0.95 | 1.2 ±0.2 | 0.5 ±0.2 |
| PP001980 | 5/16 | 8 | ≥8 | ≤1.65 | 1.65 ±0.2 | 0.76 ±0.2 |
| PP001977 | 1/2 | 12 | ≥12 | ≤2.41 | 2 ±0.2 | 1.02 ±0.2 |

Part Number Table

| Description | Part Number |
|--------------------------------------------------------------|-------------|
| Tubing, Heat Shrink, Dual Wall, Flexible, 12mm, Black, 1.22m | PP001977 |
| Tubing, Heat Shrink, Dual Wall, Flexible, 4mm, Black, 1.22m | PP001978 |
| Tubing, Heat Shrink, Dual Wall, Flexible, 8mm, Black, 1.22m | PP001980 |

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