

**RoHS  
 Compliant**



**Application**

Rugged, heavy wall tubing is specially designed for insulating, protecting and sealing electrical connections and joints in low-voltage cables where flame-retardant, electrical insulation and waterproof are required.

**Specifications**

Operating Temperature : -45°C to +125°C  
 Fully Shrink Temperature : 125°C  
 Shrink Ratio : 3:1  
 Colour : Black  
 Resistant to UV

**Technical Data**

Property	Test Method	Typical Data
Tensile Strength	ASTM D2671	≥14 MPa
Elongation	ASTM D2671	≥400%
Density	ASTM D792	1.2g/cm <sup>3</sup>
Longitudinal Change	UL 224	≤±10%
Elongation after Aging	UL224 158°C × 168hrs	≥300%
Heat Shock	UL224 225°C × 4hrs	No cracking
Dielectric Strength	IEC 243	≥20kV/mm
Volume Resistivity	IEC 93	≥1×10 <sup>14</sup> Ω·cm
Water absorption (%)	ASTM-D570	≤0.5
Flammability	VW-1	Self-extinguish in 30 seconds

**Hot Melting Adhesive Property**

Property	Test Method	Typical Data
Water Absorption	ASTM D570	≤0.2%
Softening Point	ASTM E28	95°C
Peel Strength (PE)	ASTM D1000	120N/25mm
Peel Strength (AL)	ASTM D1000	80N/25mm

**Product Dimensions**

Part Number	Size	As Supplied	After Recovery			
	mm	Internal Diameter (mm)	Internal Diameter	Out layer Wall Thickness	Adhesive Layer Wall Thickness	Total Wall Thickness
PP001869	9/3	≥9	≤3	2.03 ±0.3	0.48 ±0.2	2.5 ±0.4
PP001870	13/4	≥13	≤4	2.33 ±0.4	0.48 ±0.2	2.78 ±0.5
PP001871	20/6	≥20	≤6	2.33 ±0.4	0.63 ±0.2	2.95 ±0.5

**Heavy Wall Tubing**  
**Adhesive-Lined, Flame-Retardant, Polyolefin, Heat Shrink**



Part Number	Size	As Supplied	After Recovery			
	mm	Internal Diameter (mm)	Internal Diameter	Out layer Wall Thickness	Adhesive Layer Wall Thickness	Total Wall Thickness
PP001872	28/9	≥28	≤9	2.33 ±0.4	0.73 ±0.2	3.05 ±0.5
PP001873	38.1/12	≥38.1	≤12	3.13 ±0.5	0.73 ±0.4	3.55 ±0.5
PP001874	51/16	≥51	≤16	3.85 ±0.5	0.73 ±0.4	4.58 ±0.7
PP001875	70/21	≥70	≤21	3.65 ±0.5	-	-

**Part Number Table**

Description	Part Number
Tubing, Heat Shrink, Heavy Wall, W/ Adhesive, 3:1, 9mm, Black, 1.22m	PP001869
Tubing, Heat Shrink, Heavy Wall, W/ Adhesive, 3:1, 13mm, Black, 1.22m	PP001870
Tubing, Heat Shrink, Heavy Wall, W/ Adhesive, 3:1, 20mm, Black, 1.22m	PP001871
Tubing, Heat Shrink, Heavy Wall, W/ Adhesive, 3:1, 28mm, Black, 1.22m	PP001872
Tubing, Heat Shrink, Heavy Wall, W/ Adhesive, 3:1, 38.1mm, Black, 1.22m	PP001873
Tubing, Heat Shrink, Heavy Wall, W/ Adhesive, 3:1, 51mm, Black, 1.22m	PP001874
Tubing, Heat Shrink, Heavy Wall, W/ Adhesive, 3:1, 70mm, Black, 1.22m	PP001875

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