

Dual Wall Tubing (4X)

Anti-UV Light, Soft, Highly Flame Retardant, Excellent Waterproof, Moisture-Proof, Sealing Performance, Adhesive-Lined, Heat Shrinkable For Automotive Wiring Harness

pro-POWER



RoHS
Compliant

Description

High Flame-retardant adhesive-lined heat shrinkable tube for Automotive Wiring Harness 4:1 produced by high quality polyolefin and flame retardant hot melt adhesive through double-layer Co-extrusion process. The outer layer of this tube has high physical and chemical properties, and good contraction, and so on. The inner layer of this tube made of high quality hot melt in white colour which has low melting point, waterproof sealing and good Mechanical strain buffering.

It is Widely used in automotive wiring harness connected waterproof; anti gas and electricity leakage; stranded harness waterproof seal (such as home appliance wiring harness, electrical equipment wiring harness and so on); wire and cable branch at sealing waterproofing, corrosion protection for metal pipes, wire and cable repairing, water pump, submersible pump wiring waterproofing and other applications.

Specifications

Operating temperature	: -45°C to +125°C
Minimum Full Recovery Temperature	: 125°C
Minimum shrink temperature	: 70°C
Shrink Ratio	: 4:1
Colour	: Outer layer Black Inner layer White (Adhesive-lined layer)

Outer Layer - Technical Data

Property	Test Method	Typical Data
Tensile Strength	ASTM D 2671	≥10.4MPa
Elongation at breaking	ASTM D 2671	≥300%
Tensile Strength after Aging	UL 224 158°C×168hrs	≥7.3
Elongation at break after heat aging	UL 224 158°C×168hrs	≥100
Axial shrinkage rate	ASTM D 2671	-8% to +8%
Flammability	SAE-AMS-DTL-23053/5	Self-distinguish within 30s
Dielectric strength	IEC 243	≥15kV/mm
Volume resistance	IEC 93	≥1x10 ¹⁴ Ω·cm

Adhesive - Technical Data

Property	Test Method	Typical Data
Water Absorption	ASTM D 570	≤0.2%
Softening Point	ASTM D E28	85°C
Peel Strength (to PE)	ASTM D 1000	120N/25m
Peel Strength (to AL)	ASTM D 1000	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
PP001987	5/32	4	4	≤0.95	1.2 ±0.2	0.5 ±0.2
PP001988	1/4	6	≥6	≤1.27	1.3 ±0.2	0.56 ±0.2
PP001989	5/16	8	≥8	≤1.65	1.65 ±0.2	0.76 ±0.2
PP001986	1/2	12	≥12	≤2.41	2 ±0.2	1.02 ±0.2

Part Number Table

Description	Part Number
Tubing, Heat Shrink, Dual Wall, Adhesive Lined, 4:1, 12mm, Black, 1.2m	PP001986
Tubing, Heat Shrink, Dual Wall, Adhesive Lined, 4:1, 4mm, Black, 1.2m	PP001987
Tubing, Heat Shrink, Dual Wall, Adhesive Lined, 4:1, 6mm, Black, 1.2m	PP001988
Tubing, Heat Shrink, Dual Wall, Adhesive Lined, 4:1, 8mm, Black, 1.2m	PP001989

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