

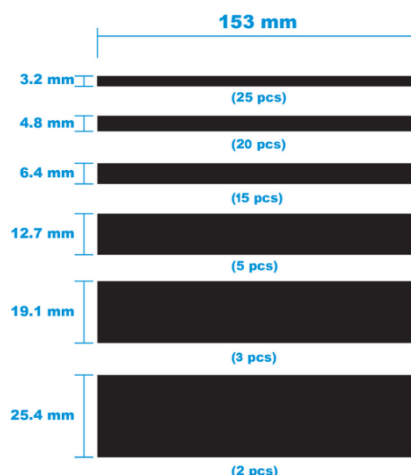


Data Sheet - TRU Components

BN: 3347204

Last updated: 4 Mar 2025

AIS dual wall polyolefin tube 3:1, 25 pcs/ set



Applications:

AIS is the outer layer made of radiation cross-linked polyolefin, and the inner layer is coated with hot melted adhesive. After heating, the outer protective layer is formed, and the inner hot melted adhesive forms an adhesive layer which can protect against water and fix the object firmly, and has good adhesion to rubber, PVC, PE and aluminum. This tubing can be used in various fields of repairing wires and waterproof requirements.

Product Dimensions:

AIS dual wall polyolefin tubing			
Size (mm)	Length (mm)	Color	Quantity
3.2	153	Black	25 pcs
4.8	153		20 pcs
6.4	153		15 pcs
12.7	153		5 pcs
19.1	153		3 pcs
25.4	153		2 pcs



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Characteristics:

Shrink ratio: 3:1

Excellent waterproof performance

Flexible, high flame retardant

Excellent physical, chemical and electrical performance

EVA and high melting temperature polyamide (PA) hot melt adhesive are selectable based on your applications

Compliance with RoHS and REACH environmental regulations

Operating temperature range:

Continuous operating temperature: -45°C~110°C

Minimum shrink temperature: 80°C

Full recovery temperature: Above 110°C

Temperature withstands of outer tube: 125°C

Approvals / Specifications:



UL224 File no. E255532, 125°C VW-1 600V

Product Dimensions:

Size (mm)	As supplied (mm)		After recovered (mm)		
	I.D. (D)	W.T. (W)	I.D. (max)	W.T. (Tubing + Hot melt adhesives)	Adhesive thickness (mm)
3.2	3.2	0.45	1.0	1.00±0.28	0.45±0.15
4.8	4.8	0.45	1.6	1.00±0.28	0.50±0.15
6.4	6.4	0.50	2.0	1.00±0.28	0.50±0.15
12.7	12.7	0.65	4.0	1.78±0.38	0.76±0.20
19.1	19.1	0.70	6.0	2.25±0.55	0.76±0.20
25.4	25.0	0.80	8.0	2.54±0.55	1.00±0.25



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Technical Data:

Property	Specification Requirement	Test Method	Typical Value
Longitudinal change	-15%~15%	ASTM D2671	Pass
Tensile strength	≥10.3MPa	ASTM D2671	≥12MPa
Elongation at break	≥200%	ASTM D2671	≥400%
Tensile strength after aging	70% of initial value	ASTM D2671 (158°C/ 168 hrs)	≥90%
Elongation at break after aging	≥100%	ASTM D2671 (158°C/ 168 hrs)	≥300%
Heat shock	No cracking	ASTM D2671 (200°C/ 4 hrs)	No cracking
Low temperature flexibility	No cracking	ASTM D2671 (-30°C/ 1 hr)	No cracking
Dielectric voltage withstands	AC2500V/60S No breakdown	ASTM D2671	No breakdown
Volume resistivity	≥10 ¹⁴ Ω • cm	ASTM D2671	≥10 ¹⁴ Ω • cm
Copper corrosion	No Corrosion	ASTM D2671 (158°C/ 168 hrs)	No corrosion
Flammability	VW-1	UL224	Pass
Hot melt adhesive			
Property	Test method	Typical value	
Softening point	ASTM E28	90°C	