

Shinn Thon UK Ltd

1st Floor, 223 Dalton Road, Barrow in Furness, Cumbria. LA14 1PQ
Tel: 0870 609 2264 Fax: 012229 833 733 E-mail: sales@shinnthon.com

I. Single Wall Tubing (Thin Wall) (Product No. : W-1-PT)

1.General Description:

Flexible, Flame-Retardant, General Purpose, Polyolefin Tubing

Product Facts

- 1) 2:1 & 3:1 shrink ratio;
- 2) Super abrasion and solvent resistance;
- 3) Excellent physical, chemical and electrical properties;
- 4) Flame-retardant (colors only);
- 5) Wide range of sizes and colors

Operating Temperature Range: -55° to 125°

Specifications/ Approvals: UL224 VW-1, RoHs compliant

2. Product Dimensions

Shrink Ratio: 2:1

Size (Inch)	Inside Diameter (mm)		Recovered wall thickness	Standard Packing (m/spool)
	As supplied	Max. after recovery		
3/64"	1.0±0.2	0.50	0.22±0.10	200
1/16"	1.5±0.3	0.65	0.28±0.10	200
3/32"	2.5±0.3	1.00	0.35±0.10	200
1/8"	3.5±0.4	1.50	0.40±0.10	200
3/16"	5.0±0.4	2.30	0.50±0.10	100
1/4"	6.5±0.4	3.00	0.55±0.10	100
3/8"	9.5±0.5	4.50	0.60±0.10	100
1/2"	12.5±0.5	6.00	0.60±0.10	100
3/4"	19.0±0.7	9.00	0.80±0.15	100
1"	26.0±0.7	12.50	0.90±0.15	50
1-1/4"	29.0±0.7	14.00	0.90±0.15	50
1-1/2"	41.5±0.7	20.00	1.00±0.15	50
2"	51.0±0.7	25.00	1.00±0.15	25
3"	≥80	41.00	1.46±0.20	25
4"	≥100	51.00	1.46±0.20	25

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Shrink Ratio 3:1

Size (Inch)	Inside Diameter (mm)		Recovered wall thickness	Standard Packing (m/spool)
	As supplied (min.)	Max. after recovery		
1/16"	1.5	0.5	0.50±0.10	200
1/8"	3.0	1.0	0.65±0.10	200
3/16"	4.5	1.5	0.65±0.10	100
1/4"	6.0	2.0	0.75±0.10	100
3/8"	9.0	3.0	0.95±0.15	50
1/2"	12.0	4.0	1.10±0.15	50
3/4"	18.0	6.0	1.25±0.15	50
1"	24.0	8.0	1.50±0.20	25
1-1/4"	30.0	10.0	1.70±0.20	25
1-1/2"	39.0	13.0	1.90±0.20	1m/piece
2"	50.0	16.0	2.50±0.20	1m/piece
3"	≥80	26.0	2.80±0.20	1m/piece
4"	≥100	33.0	3.00±0.20	1m/piece

Ordering Information

- 1) Color: Standard: Black, white, red, blue, yellow, green, clear;
Nonstandard: Brown, orange, violet, gray.
- 2) Size Selection: Always order the largest size that will shrink snugly over the component to be covered.
Special order sizes are available upon request.
- 3) Standard Packaging: On spools or in 1.22-meter (4 –foot) lengths.

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3. Product properties

Physical: 1) Tensile Strength : 14.8Mpa;

2) Elongation: 460%;

3) Tensile Strength after aging: 14.5 Mpa

4) Elongation after aging: 480%;

Electrical: 1) Dielectric Strength: 17 KV/mm

2) Volume Resistance : $1 * 10^{15} \Omega.cm$

Chemical: Corrosion UL 224(158C *168 hours) Pass;

Copper Stability UL 224(158C *168 hours) Pass;

Flammability UL 224 VW-1 Pass

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II. Dual Wall Tubing (Adhesive lined) (Product No. W-1-SB)

1. General Description

Semirigid, Adhesive lined, Polyolefin tubing

Product Facts

- 1) 3:1 shrink ratio;
- 2) Splash-resistant, moisture-resistant covering;
- 3) Rugged protection against abrasion, vibration and flexing;
- 4) Excellent strain relief and insulation of weak points.

Operation Temperature Range: -55° to 125°

2. Product Dimensions

Size (Inch)	Inside Diameter		Recovered Wall Thickness	
	As supplied	Max. after recovery	Total Wall after Heating	Meltable Wall after heating
1/8"	3.2±0.4	1.0	0.95	0.35
3/16"	4.8±0.4	1.6	1.10	0.50
1/4"	6.4±0.4	2.2	1.20	0.60
3/8"	9.5±0.4	3.2	1.4	0.65
1/2"	12.7±0.8	4.2	1.5	0.75
3/4"	19.1±0.10	6.3	2.0	0.90
1"	25.4±0.11	8.5	2.1	0.90
3/2"	39.0±0.13	13.5	2.4	1.05
2"	50.0±0.14	17.0	2.7	1.20
3"	75.0±0.14	25.0	3.2	1.20
4"	100.0±0.14	34.0	3.5	1.40

Ordering Information

- 1) Color: Standard: Black.
- 2) Size Selection: Always order the largest size that will shrink snugly over the component to be covered.
Special order sizes are available upon request.
- 3) Standard Packaging: On spools or in 1.22-meter (4 –foot) lengths.

VAT No: 864336509

Company No: 05373145

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3. Product Properties

PROPERTY (UNITS)	TEST METHOD	REQUIREMENT
Physical:		
Tensile strength (psi)	ASTM D638	1500 min.
Elongation (%)	ASTM D638	300 min.
Cold impact (-55°C)	ASTM D746	no cracking
Heat shock (250°C, 4 hrs.)	AMS-DTL-23053	no cracking
Secant modulus (psi)	ASTM D882	25000 max.
Longitudinal change (%)	AMS-DTL-23053	+/-5
Electrical:		
Dielectric strength (volts/mil)	ASTM D876	1500 min.
Volume resistivity (ohm-cm)	ASTM D876	1.0 X 10 ¹⁴
Chemical:		
Corrosion	UL 224	no corrosion
Water absorption (%)	ASTM D570	2.0 max.
Fluid resistance (23°C, 24 hrs.)		Good
Flammability	UL 224	Pass