

# Shinn Thon UK Ltd

1<sup>st</sup> Floor, 223 Dalton Road, Barrow in Furness, Cumbria. LA14 1PQ  
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## 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<br>(Inch) | Inside Diameter (mm) |                     | Recovered wall<br>thickness | Standard Packing<br>(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<br>(Inch) | Inside Diameter (mm)  |                     | Recovered wall<br>thickness | Standard Packing<br>(m/spool) |
|----------------|-----------------------|---------------------|-----------------------------|-------------------------------|
|                | As supplied<br>(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<br>(Inch) | Inside Diameter |                        | Recovered Wall Thickness    |                                |
|----------------|-----------------|------------------------|-----------------------------|--------------------------------|
|                | As supplied     | Max. after<br>recovery | Total Wall<br>after Heating | Meltable Wall<br>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 <sup>14</sup> |
| Chemical:                        |               |                        |
| Corrosion                        | UL 224        | no corrosion           |
| Water absorption (%)             | ASTM D570     | 2.0 max.               |
| Fluid resistance (23°C, 24 hrs.) |               | Good                   |
| Flammability                     | UL 224        | Pass                   |