

QSW (Quick Shrink Wrap) **Adhesive-Lined Polyolefin Wraparound Repair Sleeve**

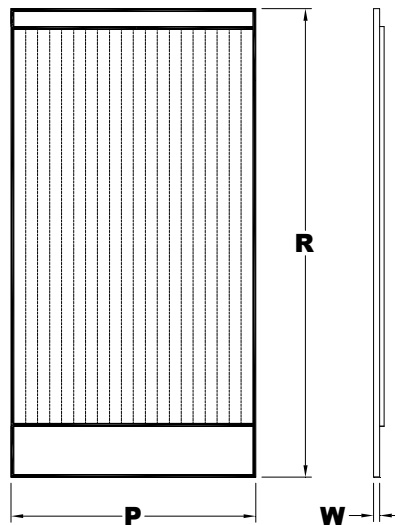



Table 1: Dimensions

| Size | Substrate Diameter Range | Dimension P +1 mm (0.04 in.), - 0 | Dimension R ± 6 mm (0.24 in.) |
|-------------|--------------------------|--------------------------------------|----------------------------------|
| | mm (in.) | mm (in.) | mm (in.) |
| QSW-60-100 | 10 (0.4) – 20 (0.8) | 60 (2.4) | 100 (4.0) |
| QSW-60-200 | 20 (0.8) – 50 (2.0) | 60 (2.4) | 200 (7.9) |
| QSW-60-300 | 40 (1.6) – 75 (3.0) | 60 (2.4) | 300 (11.8) |
| QSW-60-400 | 50 (2.0) – 100 (4.0) | 60 (2.4) | 400 (15.7) |
| QSW-100-100 | 10 (0.4) – 20 (0.8) | 100 (4.0) | 100 (4.0) |
| QSW-100-200 | 20 (0.8) – 50 (2.0) | 100 (4.0) | 200 (7.9) |
| QSW-100-300 | 40 (1.6) – 75 (3.0) | 100 (4.0) | 300 (11.8) |

Notes: 1. Dimension **W** (wall thickness): 0.65 mm (0.025 in.) nominal
2. Dimension **R** (length of sheet) shrinks approximately 10%

Material: QSW sleeves shall be fabricated from irradiated modified polyolefin compounded to produce a homogeneous, uniform product whose exterior surface is essentially free from flaws, defects, pinholes, seams, cracks or inclusions, and the color shall be black. The interior shall be coated with a hot melt thermoplastic adhesive.

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| | | | | | | | |
|---|----------------|---|--|--------------------------|------------|--|--|
|  | | TE Connectivity 305 Constitution Drive Menlo Park, CA 94025 USA | | Raychem Tubing | | Title: QSW (Quick Shrink Wrap) Adhesive-Lined Polyolefin Wraparound Repair Sleeve | |
| TE Connectivity reserves the right to amend this drawing at any time. Users should evaluate the suitability of the product for their application. | | | | Document No : QSW | | | |
| Cage Code: 06090 | Scale: None | Size: A | | Rev. Date: 15-Apr-11 | Rev: B1 | Sheet: 1 of 2 | |

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Table 2: Properties

| Property | Unit | Requirement | Test Method |
|---|---|------------------------------|---------------------------|
| Tensile Strength | psi (MPa) | 2466 (17) minimum | ASTM D412 |
| Ultimate Elongation | percent | 350 minimum | ASTM D412 |
| Specific Gravity | - - - | 1.05 maximum | ASTM D792 |
| Hardness | shore D | 40-50 | ASTM D2240 |
| Accelerated Aging 168 hrs @ 150 ± 2°C (302 ± 4°F) followed by tests for: | | | ASTM D2671 |
| Tensile Strength | psi (MPa) | 1740 (12) minimum | ASTM D412 |
| Ultimate Elongation | percent | 200 minimum | ASTM D412 |
| Low Temperature Flexibility 4 hrs @ -40 ± 3°C (-40 ± 5°F) | --- | No cracking | ASTM D2671 Procedure C |
| Dielectric Strength | V/mil (kV/cm) | 500 (200) minimum | ASTM D2671 |
| Volume Resistivity | ohm-cm | 1 x 10 ¹² minimum | ASTM D2671 |
| Water Absorption 168 hrs @ 23 ± 2°C (73 ± 4°F) | percent | 0.2 maximum | ASTM D2671 |
| Fluid Resistance 24 hours @ 23 ± 2°C (73 ± 4°F) in: Hydraulic Fluid (MIL-H-5606) JP-8 (MIL-T-5624) Lubricating Oil (MIL-L-7808) Lubricating Oil (MIL-L-23699) 5 percent NaCl (A-A-694) Deicing Fluid (MIL-A-8243) Skydrol 500 | | | AMS-DTL-23053/5 |
| Followed by tests for: | | | |
| Tensile Strength | psi (MPa) | 1000 (6.9) minimum | ASTM D412 |
| Dielectric Strength | V/mil (kV/mm) | 400 (15.8) minimum | ASTM D2671 |
| Weathering | The material from which QSW is manufactured contains carbon black to protect it from ultraviolet radiation. | | |

- Acceptance Tests:**
1. **Dimensional** (1 piece per lot): Shall meet the specified dimensions.
 2. **Visual** (20 pieces per lot): Both backing and adhesive surfaces shall be essentially free from flaws, defects, pinholes, seams or cracks, and must have clean cut edges.
 3. **Application** (1 piece per lot): 15 minutes @ 175 ± 2°C; No slip page, bubbles or flaws.

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|-------------------------|-------------|---------------------|------------------|
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