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



Table 1: Dimensions

Size	Substrate Diameter Range	Dimension P +1 mm <i>(0.04 in.)</i> , - 0	Dimension R ± 6 mm <i>(0.24 in.)</i>	
	mm <i>(in.)</i>	mm <i>(in.)</i>	mm <i>(in.)</i>	
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 <i>(4.0)</i>	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 reserves the right to amend this drawing at any time. Users should evaluate the suitability of the product for their application.		Document No : QSW			
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Table 2: Properties

Property	Unit	Requirement	Test Method	
Tensile Strength	psi (MPa) 2466 (17) minimum percent 350 minimum 1.05 maximum		ASTM D412	
Ultimate Elongation			ASTM D412	
Specific Gravity			ASTM D792	
Hardness	shore D	40-50	ASTM D2240	
Accelerated Aging 168 hrs @ 150 $\pm 2^{\circ} (302 \pm 4^{\circ})$ followed by tests for:			ASTM D2671	
Tensile Strength	psi <i>(MPa)</i> 1740 <i>(12)</i> minimum		ASTM D412	
Ultimate Elongation	percent	200 minimum	ASTM D412	
Low Temperature Flexibility 4 hrs @ -40 \pm 3°C (-40 \pm 5°F)		No cracking	ASTM D2671 Procedure C	
Dielectric Strength	V/mil (kV/cm)	500 <i>(200)</i> 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 @ $23 \pm 2^{\circ}C$ ($73 \pm 4^{\circ}F$) 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 Dielectric Strength Weathering	psi <i>(MPa)</i> V/mil <i>(kV/mm)</i> The material from protect it from ultr	1000 <i>(6.9)</i> minimum 400 <i>(15.8)</i> minimum which QSW is manufactured raviolet radiation.	ASTM D412 ASTM D2671 contains carbon black to	

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 @ $175 \pm 2^{\circ}$; No slip page, bubbles or flaws.

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